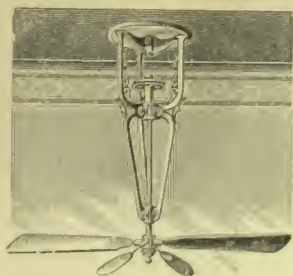




875 623 812m



### Our Exhaust Fans

Are used in the Great New York Post Office and other Public Buildings. Thousands of references, and acknowledged the Standard.

### Our Rotating Fans

All places are positively free from flies where our Rotating Fans are properly used.

## THE BACKUS PATENT Rotating \* and \* Exhaust \* Ventilating \* Fans

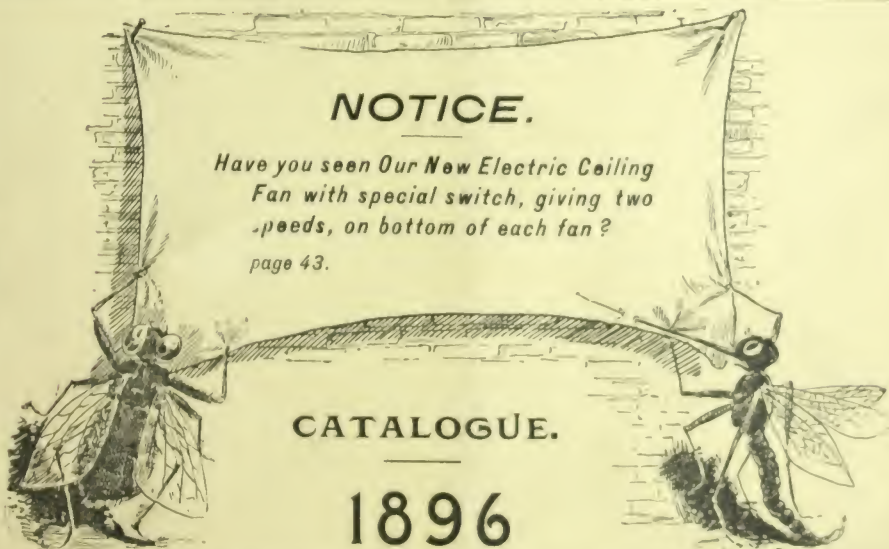
### NOTICE.

*Have you seen Our New Electric Ceiling Fan with special switch, giving two speeds, on bottom of each fan?*

*page 43.*

### CATALOGUE.

# 1896



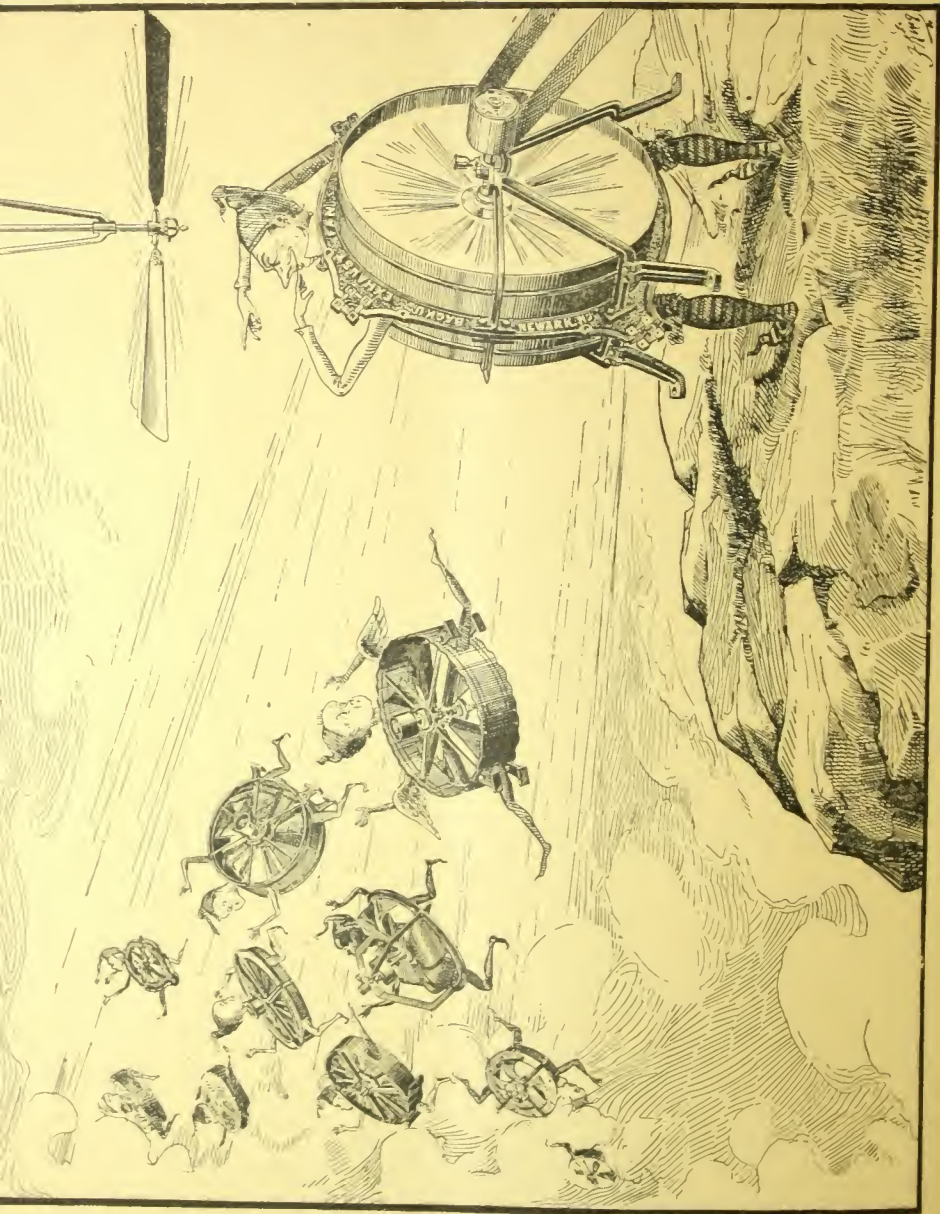
\* THE BACKUS EXHAUSTER will move enormous volumes of air and relieve all places troubled with hot air, smoke, dust or steam. A perfect fan for ventilating, drying or cooling. Send for Special Catalogue.

MANUFACTURED AND FOR SALE BY

ad Carefully the Following Pages.

MADE FOR OUR PATENT REGULATOR  
FAN BLADE HOLDER.

# A Wonderful Air Mover.



WE ARE ALWAYS LEADING

IS IMPROVING.

WILL PROVE IT.



WRITE FOR SPECIAL CATALOGUE ON EXHAUST FANS.

**NOTE.**

**T**HIS Catalogue treats of our Patent Rotating as well as our Exhaust Ventilating Fans.

WE ALSO MANUFACTURE

**THE  
CELEBRATED BACKUS WATER MOTOR and  
BACKUS GAS ENGINE.**

The Cheapest Power Known for Running Light Machinery.  
(Send for special catalogues.)

Our Patent Rotating Ceiling and Column Fans  
are Manufactured in Eleven Styles  
and Ten Sizes.

Protected by twelve U. S. Letter Patents.

All infringements will be prosecuted, and parties are hereby warned against using our designs for patterns, as by so doing they infringe our PATENTS.

**OUR NEW NICKEL PLATED CLUTCH**

has been improved and still contains all of the valuable features which enable the blades to be thrown at any angle or stopped and started at will. It *positively prevents* the blades from flying out.

***Notice OUR NEW BRASS FAN, Pages 2, 3, 4 and 5.***

**Keep Cool in Hot Weather!**

**Advertise Your Business!**

**Increase Your Profits!**

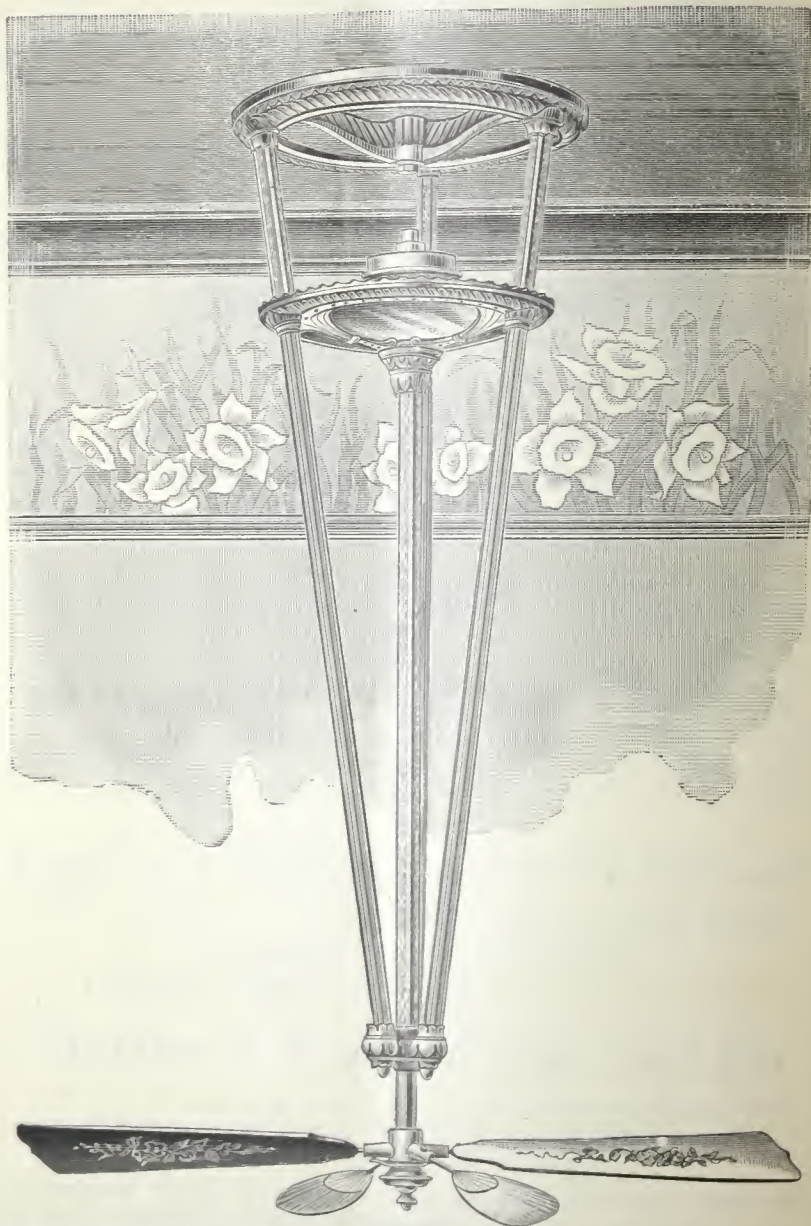
**OUR FANS ARE INVALUABLE IN MARKETS,**

Bakeries, Barber Shops, Dining Rooms, Drug Stores, Saloons, Restaurants, Groceries, and in all places where, properly used, NO FLIES are noticeable.

**The Only Practical Fan in the World Made and Shipped in Sections. Read Carefully the Following Pages.**

**NO EXTRA CHARGE MADE FOR OUR PATENT REGULATOR  
OR FAN BLADE HOLDER.**

THE BACKUS WATER MOTOR CO.,  
**OUR NEW BRASS FAN.**



PATENTED.

The only Fan made having the shaft as well as three arms (or braces) covered with highly polished brass. **VERY HANDSOME.**

**THIS SIZE FOR HIGH CEILINGS**

NOTE PRICE LIST, PAGE 6.

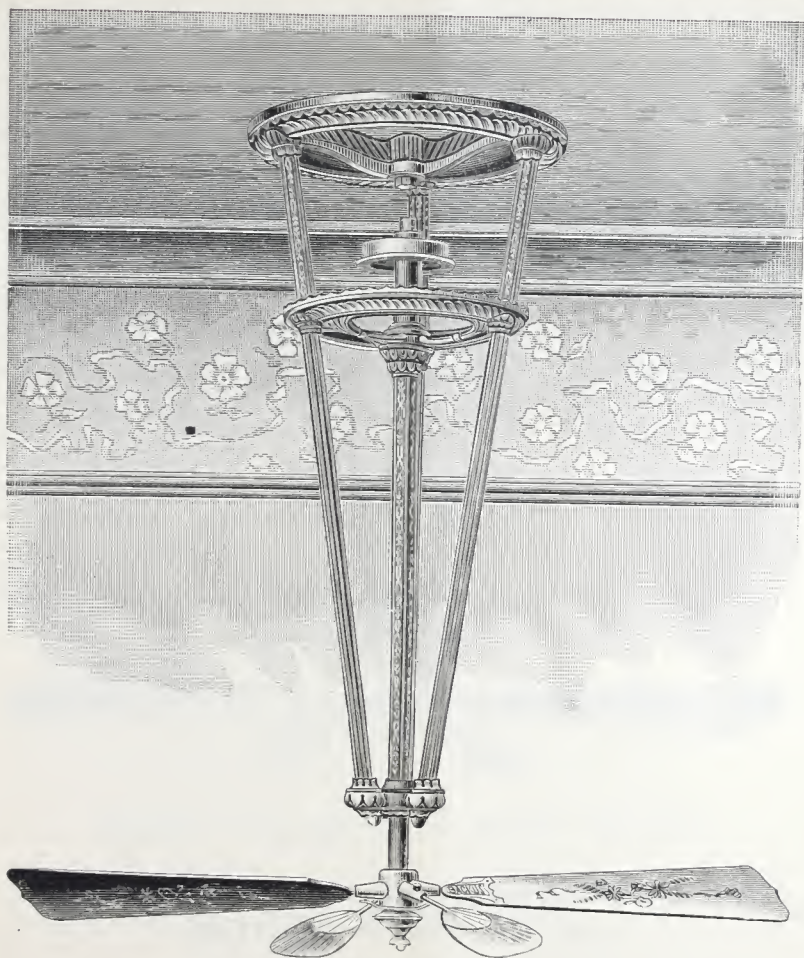
NO EXTRA CHARGE FOR BLADE REGULATOR.

*Have you seen our Electric Ceiling Fan?*

*Write for special circular.*

**EASY TO KEEP CLEAN!**

**STRONG AND HANDSOME!**



PATENTED.

Take out your old Fans and substitute this if you desire a beautiful place.

**This Style for Medium High Ceilings.**

NOTE PRICE LIST, PAGE 6.

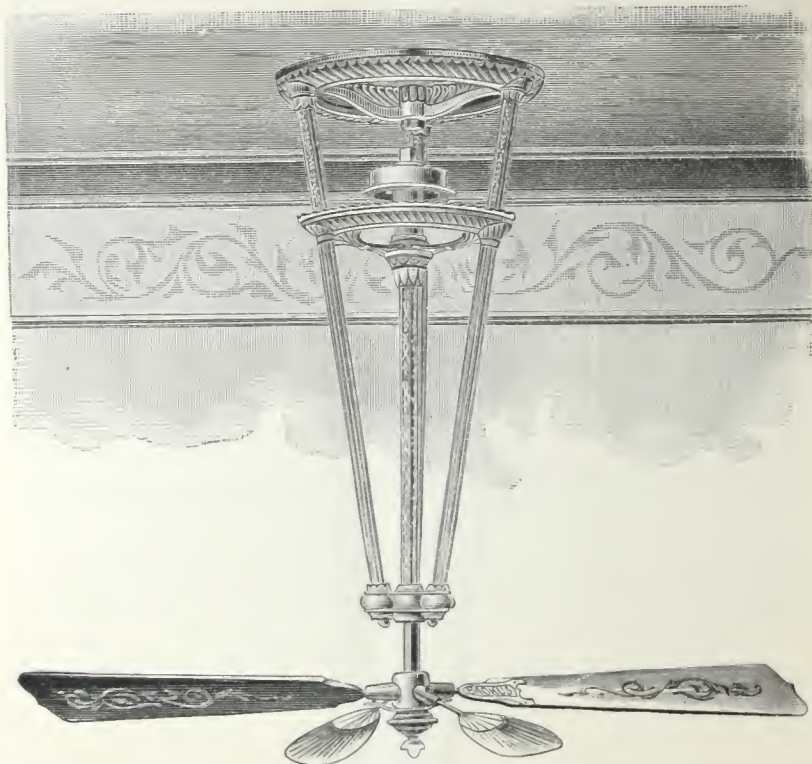
NO EXTRA CHARGE FOR BLADE REGULATOR.

**OUR ELECTRIC CEILING FANS LEAD THE WORLD!**

Send for Special Circular.



BRASS OR NICKEL FINISH FURNISHED  
AS DESIRED.



PATENTED.

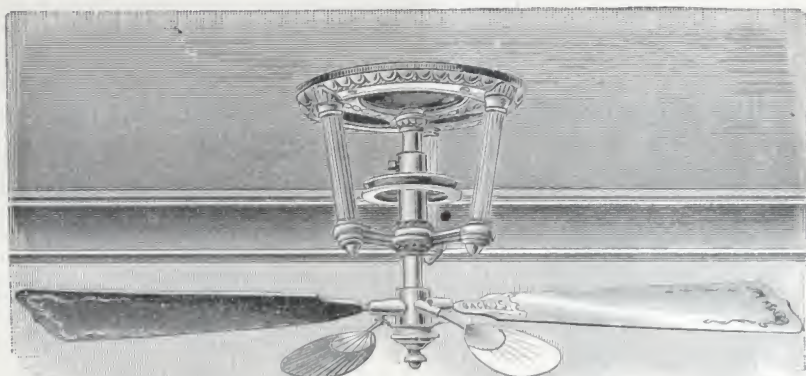
*They are all supplied with our PATENT BLADE  
REGULATOR or CLUTCH.*

Handsome Blades sent with all of our New Brass Fans.

THIS SIZE FOR LOW CEILINGS!

## FLAT OR ROUND BELT,

Used for Driving Same, as Desired.



PATENTED.

— NOTE. —

The arms or tripods, being the part requiring strength, are made of wrought-iron, covered with polished brass tubing, and the entire bracket can be taken apart and packed away by simply unscrewing three nuts.

Nothing in the Market to Compare with them.

**THIS SIZE FOR VERY LOW CEILINGS.**

Note price list, page 6.

**NO EXTRA CHARGE FOR BLADE REGULATOR.**

See Our New Electric Fan, Page 43.

## PRICE LIST

## Backus Combination Brass Ceiling Fans.

Made in Three Styles.

## —NOTE.—

Our Price Includes Fan Complete, ready to put up.

No Extra Charge For Blade Regulator.

	No. 1	No. 2	No. 3
	Nickel-plated & ornamented Japan, with mirrors, decorated mahogany finished blades and blade regulator.	Brass and ornamented Japan, decorated varnished blades and blade regulator. No mirror.	Brass and gold bronze, varnished blade and blade regulator. No mirror.
CEILING.			
7 feet.....	\$8 50	\$7 75	\$7 00
7 " 6 inches.....	9 00	8 25	7 75
8 " ".....	10 00	9 25	8 75
8 " 6 ".....	13 00	11 50	10 00
9 " ".....	14 00	12 50	11 25
9 " 6 ".....	15 00	13 75	12 50
10 " ".....	17 00	15 25	13 00
10 " 6 ".....	18 00	16 25	14 50
11 " ".....	19 00	17 25	15 00
11 " 6 ".....	20 00	18 00	16 00
12 " ".....	21 50	18 75	17 00
12 " 6 ".....	22 50	19 25	17 75
13 " ".....	23 50	21 00	18 50
13 " 6 ".....	24 50	21 75	19 00
14 " ".....	25 50	22 50	19 50
14 " 6 ".....	26 50	23 25	20 00
15 " ".....	27 50	24 00	20 50
15 " 6 ".....	28 50	24 75	21 00
16 " ".....	29 50	25 50	21 50
16 " 6 ".....	30 50	26 25	22 00
17 " ".....	31 50	27 00	22 50
17 " 6 ".....	32 50	27 50	23 00
18 " ".....	33 50	28 25	23 50
18 " 6 ".....	34 50	29 25	24 00
19 " ".....	35 50	30 25	24 50
19 " 6 ".....	36 50	31 25	25 00
20 " ".....	37 50	32 25	25 50

## —NOTE.—

Our Fans are all manufactured so as to bring the blade about 7 feet 3 inches from the floor, as this is the only proper height.

Write for Electric Fan Circular. See page 43.



# THE BACKUS NEW DESIGN.

The only practical Fans that can be knocked down and shipped in a small box or packed away in winter.

OUR VARIETY WILL PLEASE YOU.

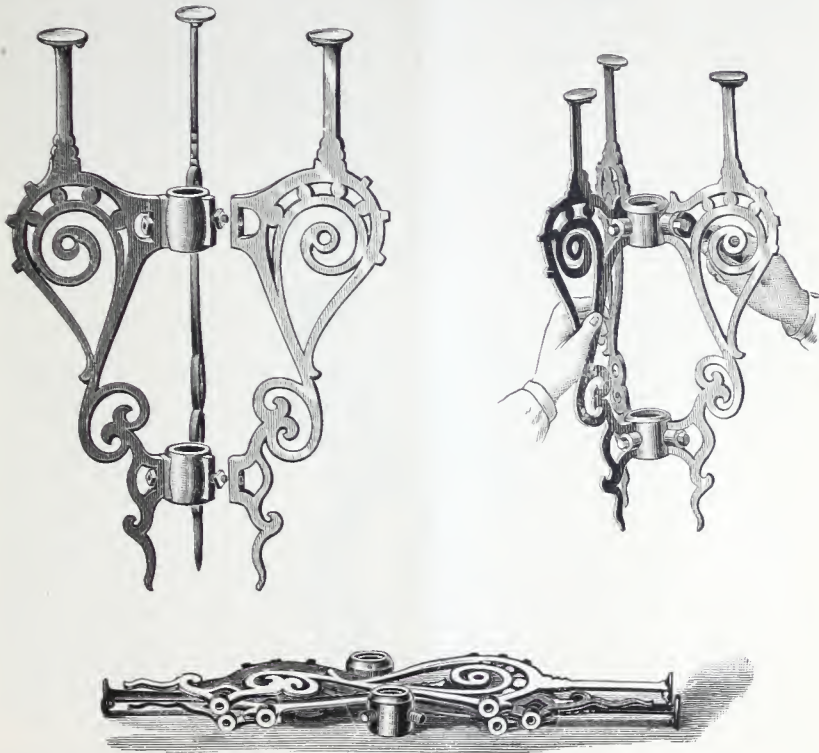


FIG. 3.

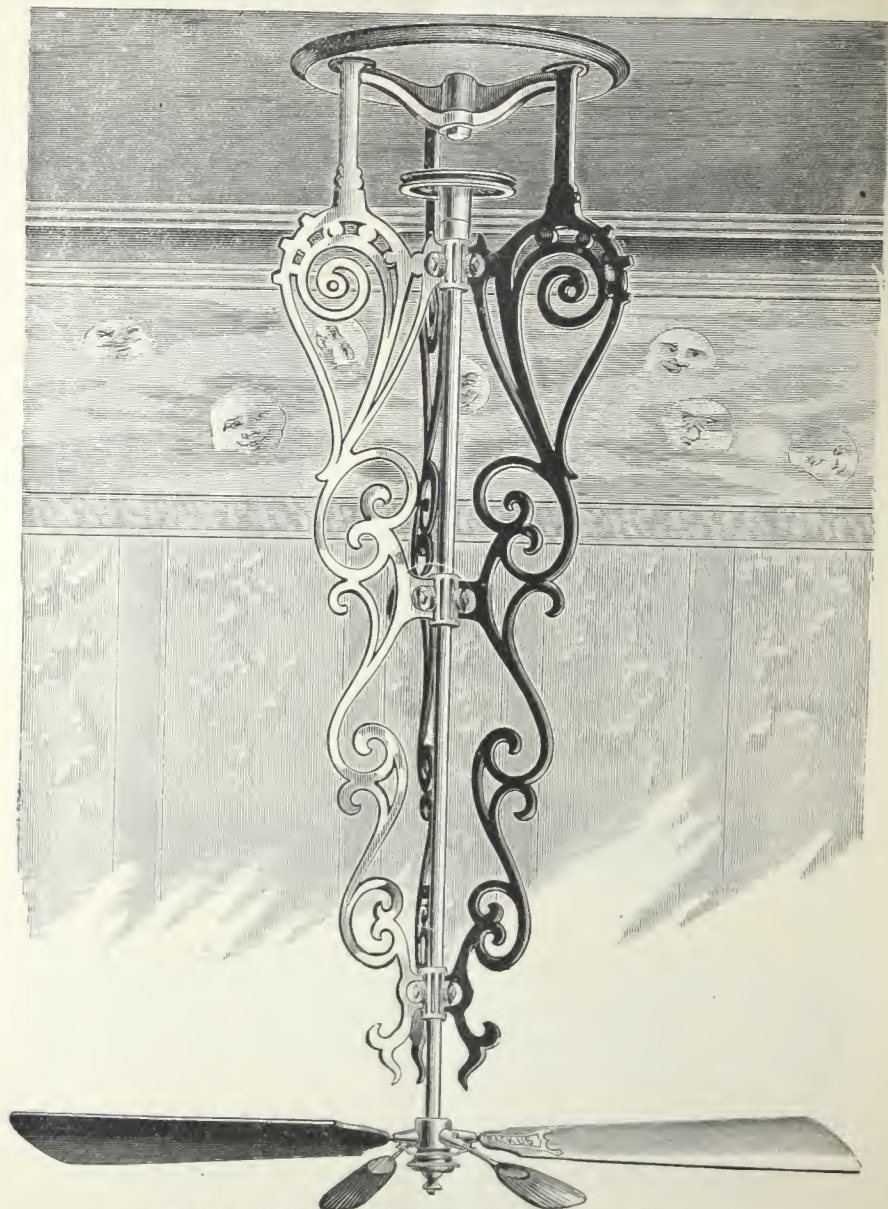
The above cut shows how our new design, as well as just how our other styles, can be taken apart or put together by simply the use of a small wrench which we send with each order. The advantage of this over other fan hangers can be readily seen when we say that six can be packed in a box which would contain but one set of any other style or make of fan known, and

**YOUR FREIGHT IS REDUCED ONE-HALF.**

We Furnish Polished Wood Bases and Lag Bolts For Putting Up All Of Our Fans Without Charge.

Note Our New Brass Fan, Page 12.

OUR FANS ARE NOISELESS.



**NEW DESIGN FOR VERY HIGH CEILING.**

*The only Fans in the World that can be put up without injury to your ceiling.*

**See Our New Electric Fan, Page 43.**



We Guarantee Absolute Relief From Heat and Flies.



PATENTED.

NEW STYLE FOR HIGH CEILING.

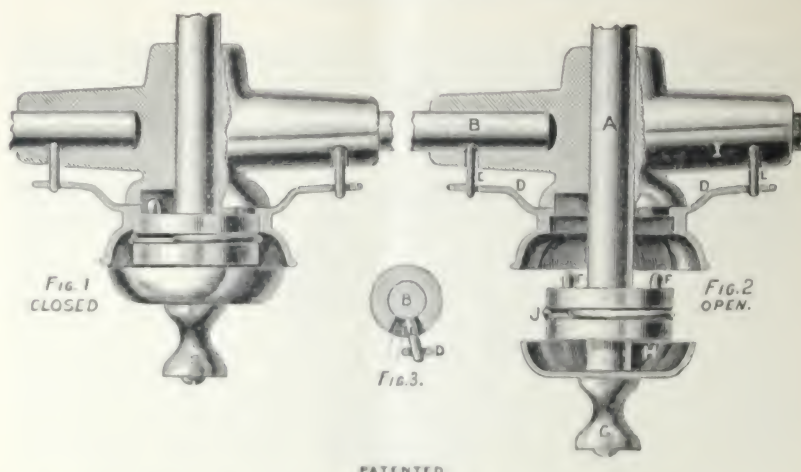
Our Blades cannot FLY OUT and are not DANGEROUS to RUN.

Note Our New Brass Fan, Page 2.



## THE BACKUS NEW NICKEL PLATED CLUTCH

### DESCRIBED.



As shown above, Fig. 1 describes our New Clutch CLOSED, Fig. 2 showing same OPEN, and Fig. 3 a section of the fan blade hub and fan finger, also the small pin which is used in turning or angling the blades.

Letter A is the fan shaft, which is fastened tightly to the collar J. Letter G is a polished knob or button which you grasp and push up or pull down when desiring to stop or start the fan. H is a nickel-plated oil cup, to prevent any chance of drip. P P are two pins that when pushed up fasten themselves into the main hub I. Letters D D are two arms which are moved by turning the lower cup-shaped part of same, which throws the blades at any angle desired.

### NOTE.

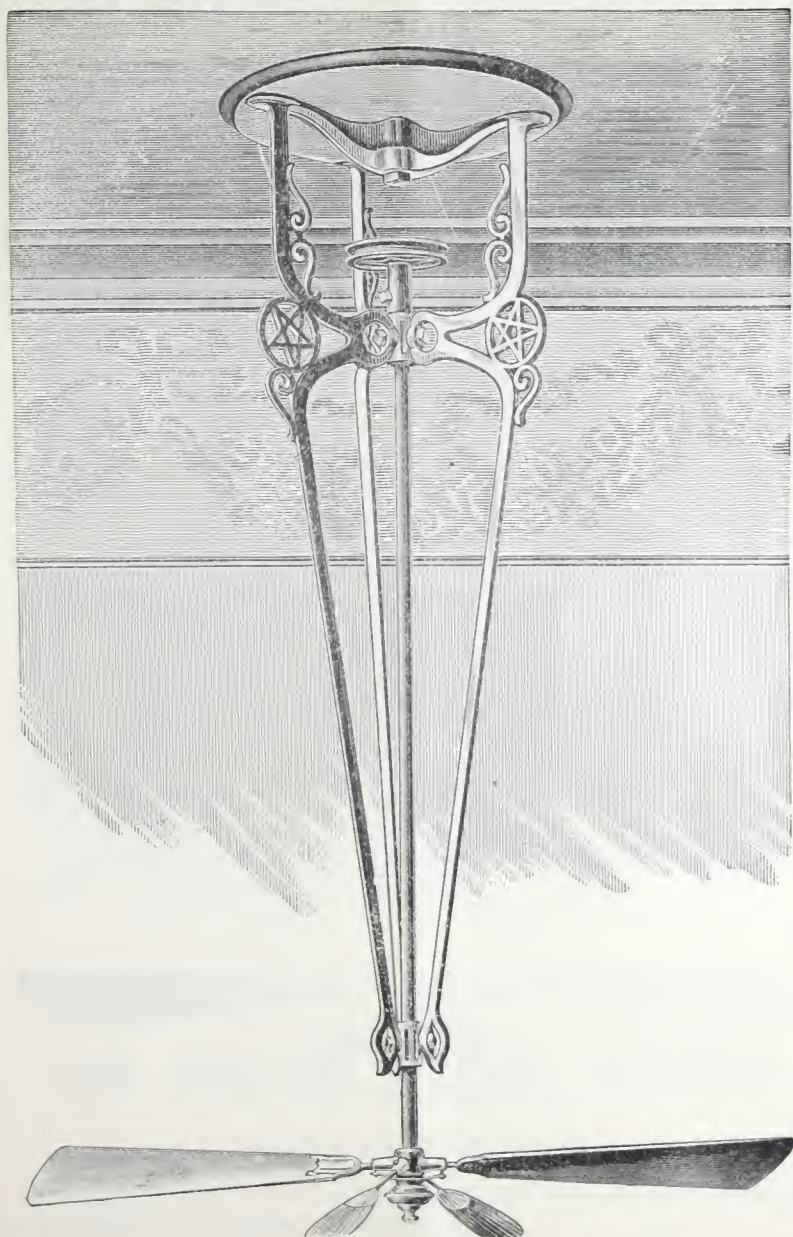
Parties having our old-style clutch and desiring to replace same with the above can do so on a liberal basis by writing us.

**As Fan Blades cannot fly out when this Clutch  
is used, we would particularly advise  
its adoption.**

See Our New Electric Fan, Page 43.

**STYLE "A."**

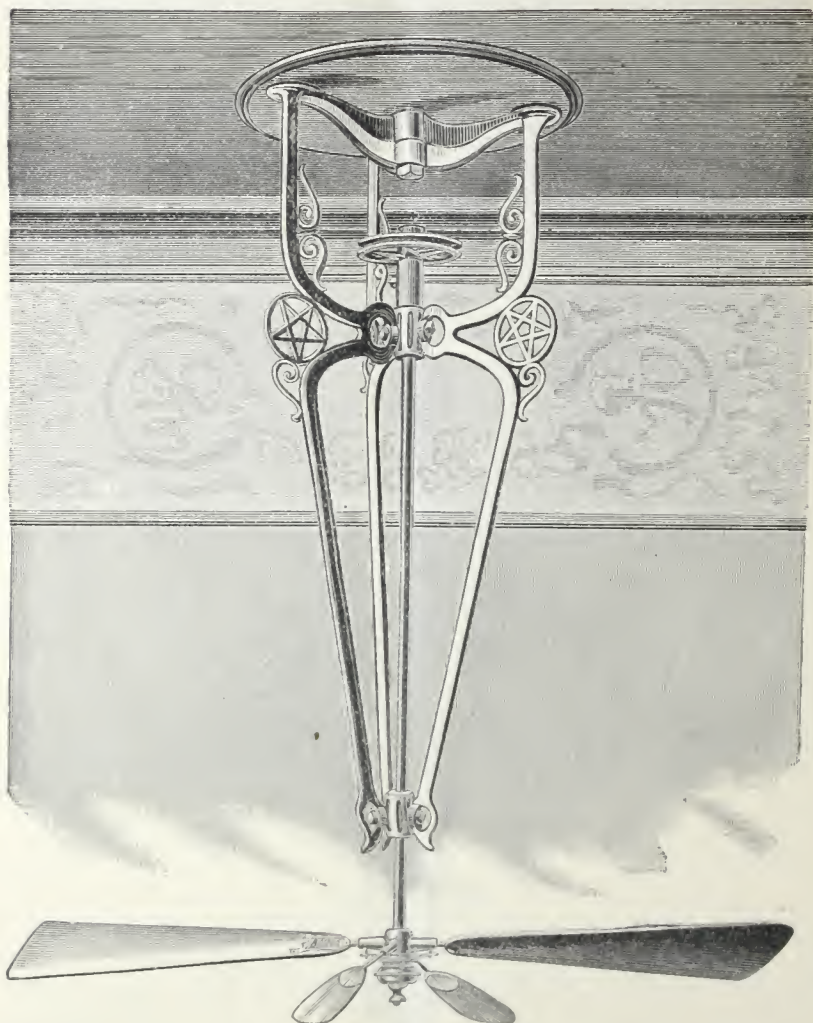
Patented 1893.



Patented January 19, 1886 ; February 23, 1886.

**Particularly Adapted for Very High Ceilings.**  
**Note Our New Brass Fan, Page 2.**

**Most ORNAMENTAL FANS in the WORLD.**  
**STYLE "A."**



Patented January 19, 1886 ; February 23, 1886.

**FOR HIGH CEILINGS.**

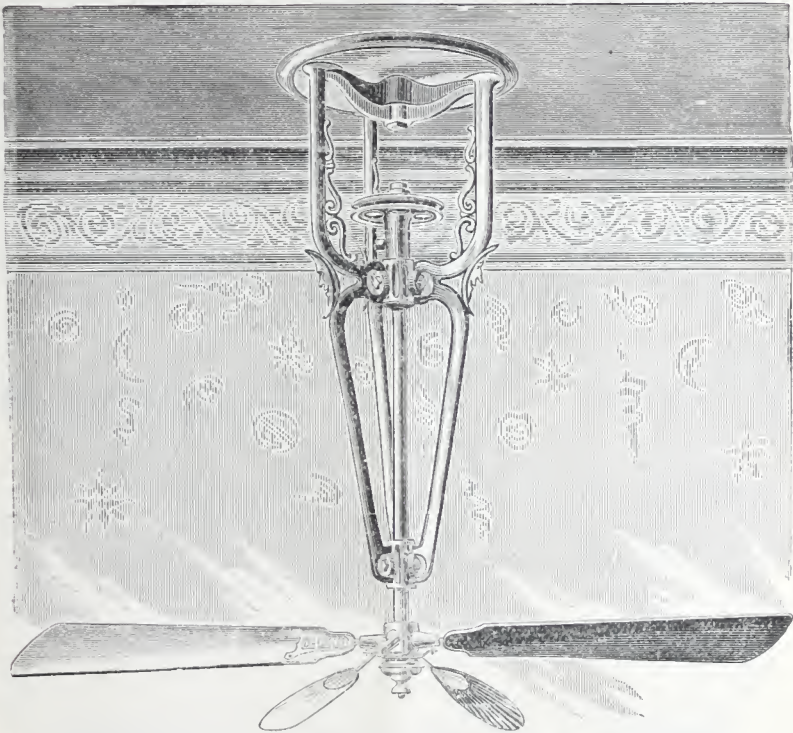
Guarantee Absolute Relief from Heat and Flies.

The Lightest and Strongest Fan Manufactured.

See Our New Electric Fan, Page 43.



THE AMOUNT OF AIR THROWN  
*CAN BE REGULATED BY*  
**OUR NEW CLUTCH.**  
**STYLE A.**



Patented January 19, 1886; February 23, 1886.

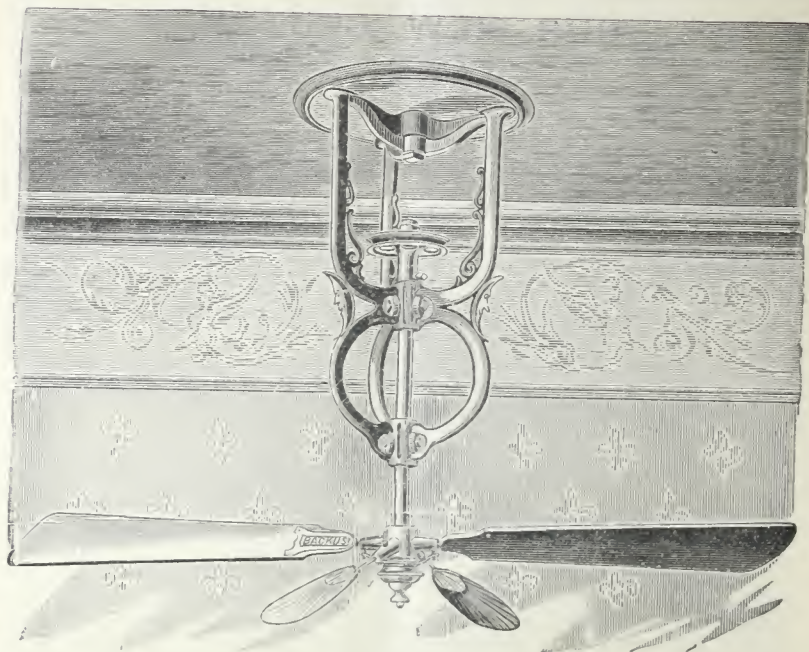
**FOR MEDIUM HEIGHT CEILINGS.**

CONSIDER CAREFULLY THE ADVANTAGES OFFERED.

Note Our New Brass Fan, Page 2.

## SPECIAL DESIGNS MADE TO ORDER.

STYLE "A."



Patented January 19, 1886; February 23, 1889.

### FOR LOW CEILINGS.

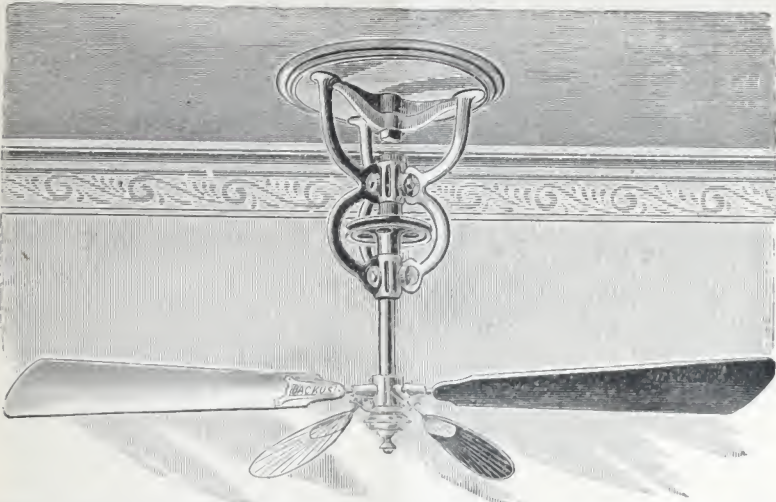
Thousands of References Furnished on Application.

Keep Cool and Comfortable in Hot Weather.

KEEP YOUR PLACE FREE FROM FLIES.

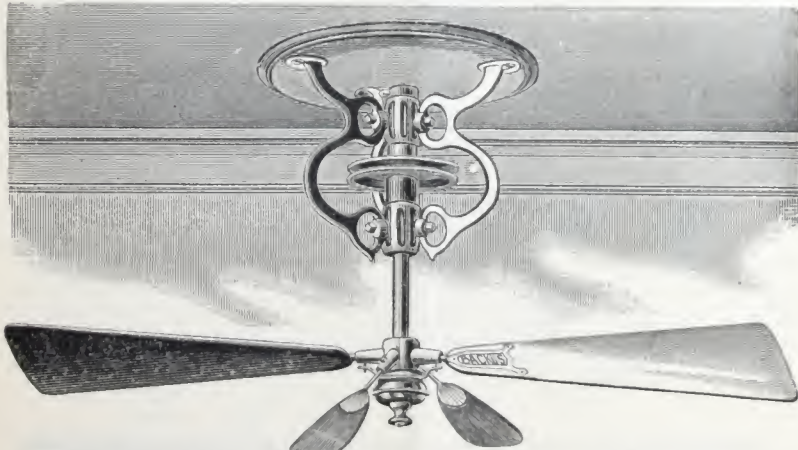
See Our New Electric Fan, Page 43.

STYLE "A."  
FOR EXTREMELY LOW CEILINGS.



NOTE.—The above shows a Hanger that has been used with great success on Ceilings of 7 feet 6 inches to 8 feet.

STYLE "A."



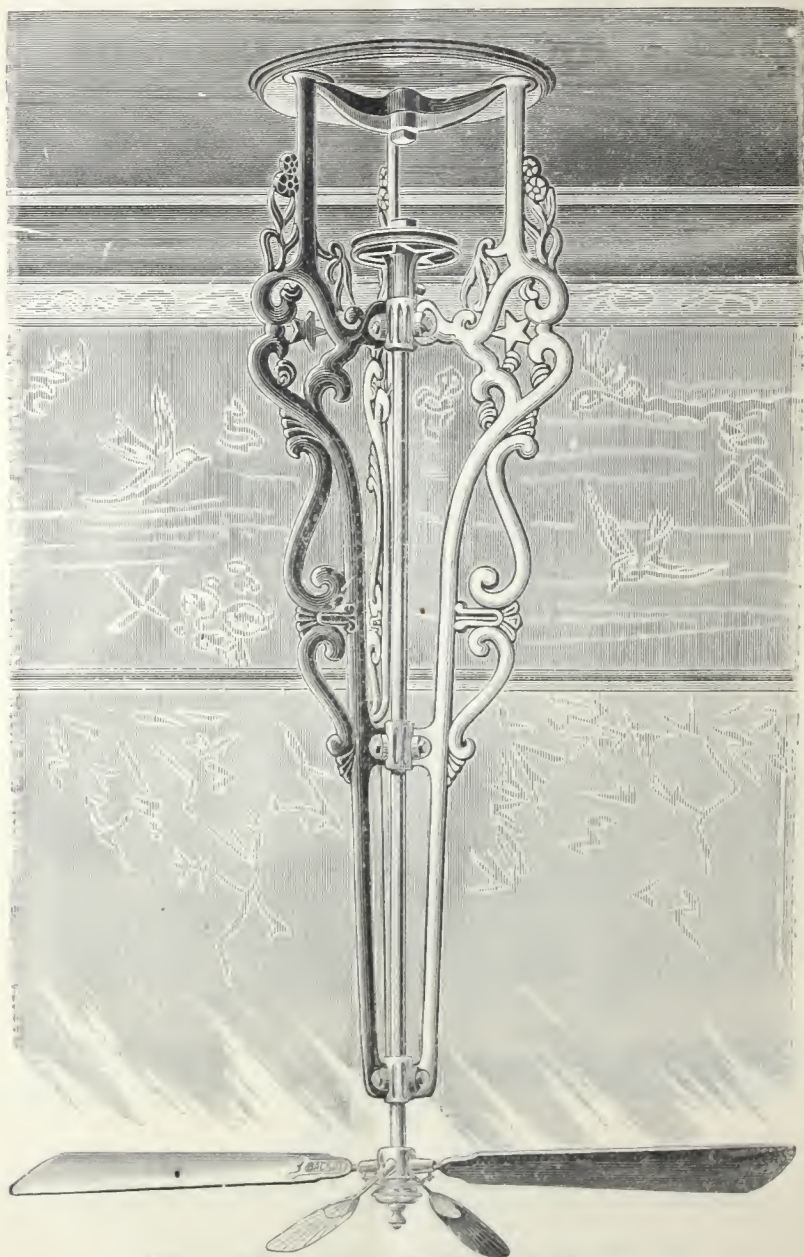
This represents a Hanger which over all will not take up more than 9 inches to 10 inches, and is so constructed as to embody all of the special features used in our larger size.

Our Fans are all Finished in Gold or Silver Bronze.

Note Our New Brass Fan, Page 2.



## STYLE "A."



Patented January 19, 1886; February 23, 1886.

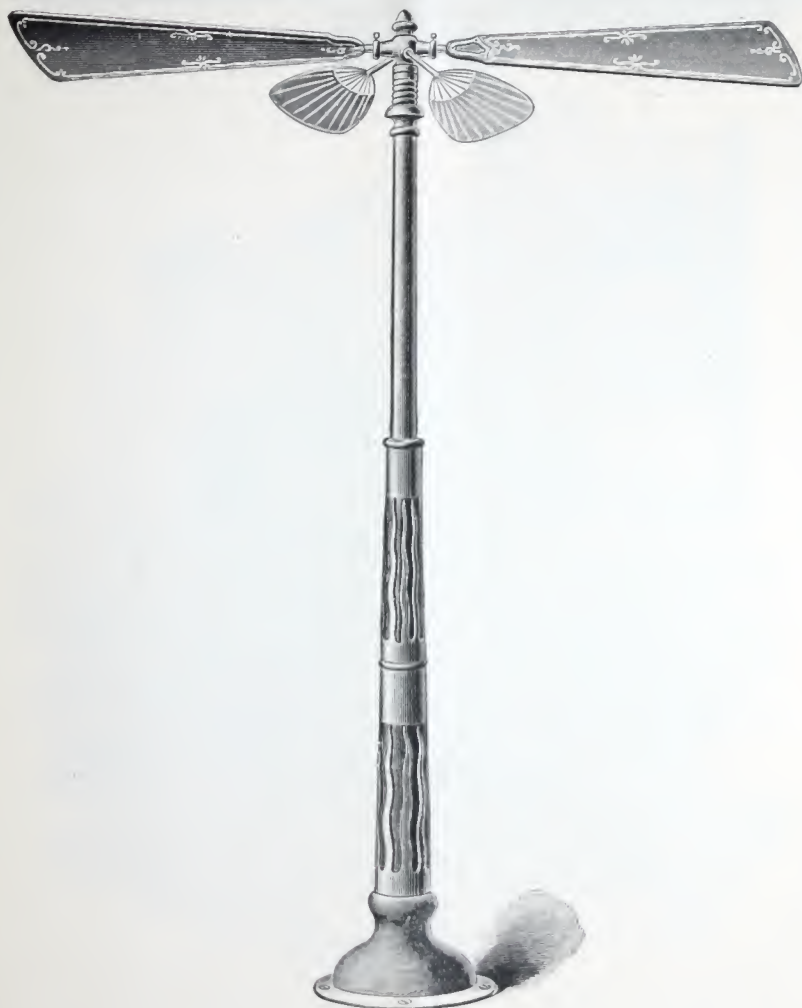
Particularly Adapted for Very High Ceilings.

Note same size Bracket, different design, page 13.

See Our New Brass Fan, Page 2.

## NEW FIRE DART COLUMN.

Specially designed for Dennett's Eating Houses in New York City.



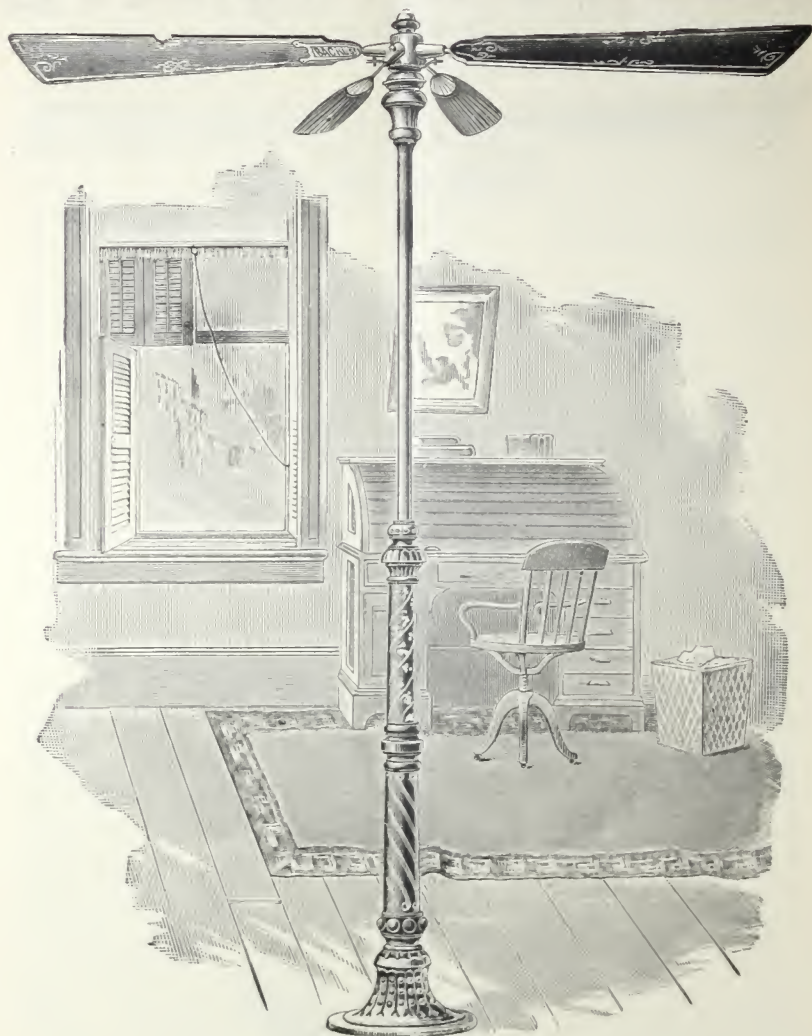
No. 0.

### PRICE LIST.

Base mahogany and bronze decoration, top polished brass, blades plain and varnished, } patent regulating attachment as shown.....	\$27.50
Base full bronze, top nickel-plated, decorated blade, and regulating attachment. ....	\$35.00
Base japanned and decorated, extra finish, top highly nickeled, white and gold } blades, and regulating attachment.....	\$45.00

Note Our New Electric Fan, Page 43.

# THE BACKUS PATENT COLUMN FANS.



PATENTED.

No. 1.

## PRICE LIST.

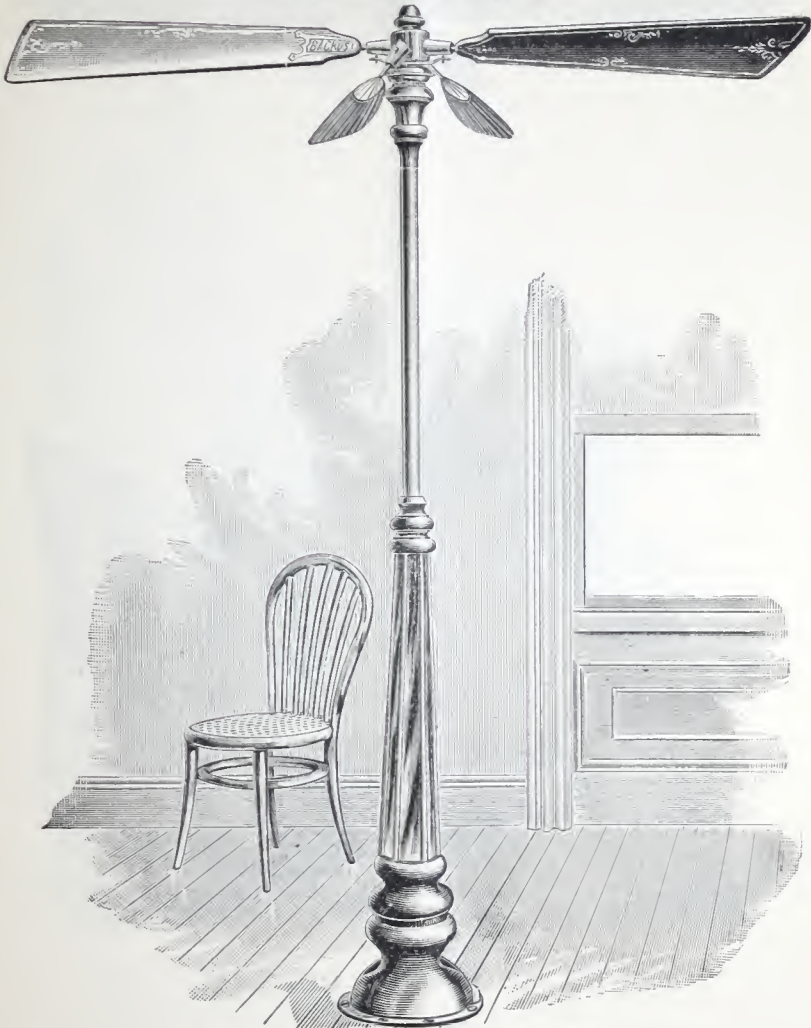
Base bronzed, polished brass top, blades plain and varnished, with patent regulating attachment .....	\$32.50
Base bronzed, top nickel-plated, decorated blades, with patent regulating attachment.....	\$40.00
Base japanned, extra finish, top highly nickel, white and gold blades, with patent regulating attachment .....	\$48.00

See Our New Electric Fan, Page 43.



## OUR NEW COLUMN CLUTCH.

A Wonderful Feature.



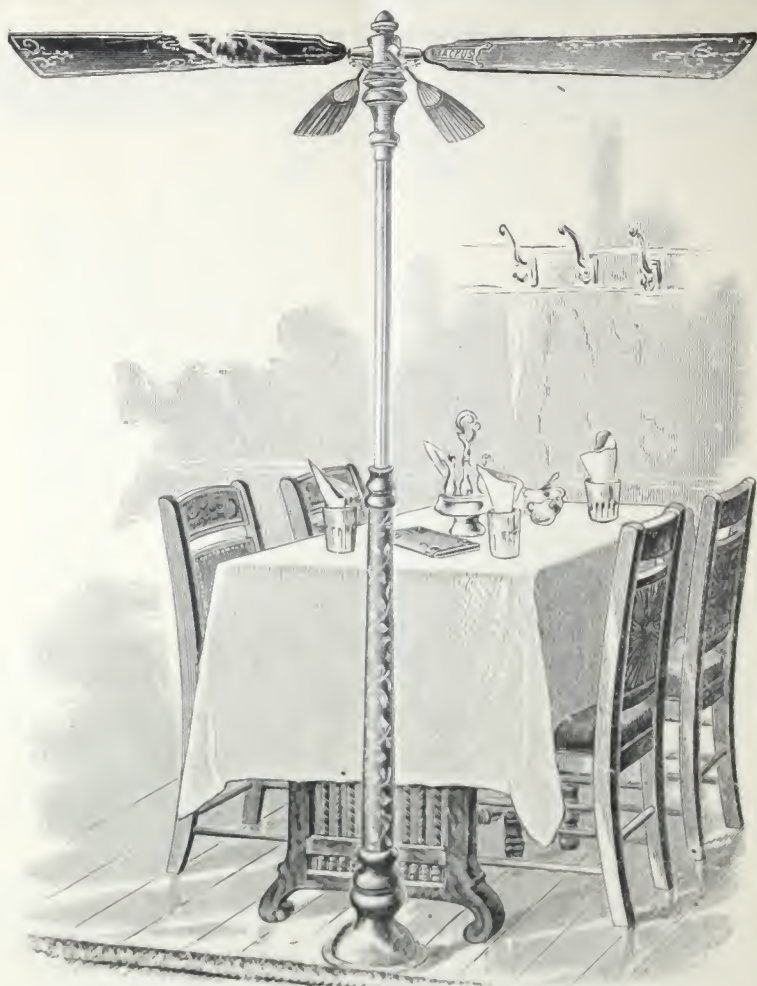
### No. 2, MIRROR COLUMN.

#### PRICE LIST.

With base, showing beautiful mirror and bronzed trimmings, top polished brass, blades plain and varnished, with patent regulating attachment.....	\$35.00
With mirror base, nickel-plated top and trimmings, decorated blades and patent regulating attachment.....	\$45.00
With base old green, bronze, copper and nickel-plated trimmings, decorated spangled blades (very handsome), patent regulating attachment.....	\$60.00

Note Our New Brass Fan, Page 2.

This is a Beautiful Fan.

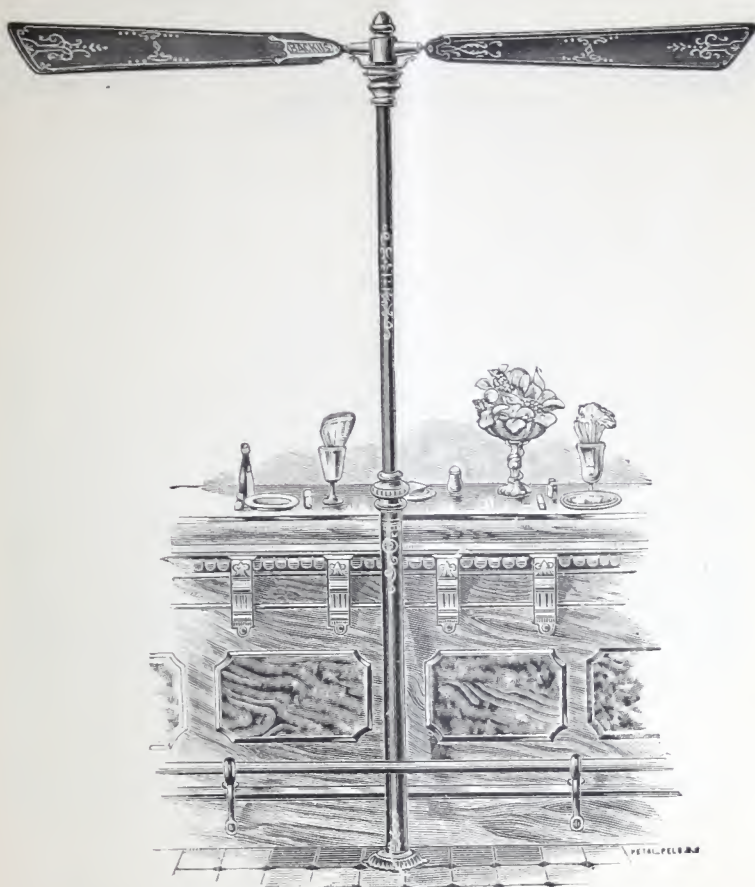


No. 3, OR VINE COLUMN.

## PRICE LIST.

With bronze base, polished brass top, varnished blades, and patent regulating attachment.....	\$27.50
With japanned and decorated base, top nickel-plated, decorated blades and patent regulating attachment. ....	\$35.00
With base beautifully japanned, extra fine finish, with full nickel top, white and gold blades, and patent regulating attachment.....	\$45.00

See Our New Electric Fan, Page 43.



### No. 4, OR COUNTER COLUMN.

This Fan is particularly adapted for the side of a Bar or Lunch Counter, and is highly Nickered and Polished.

---

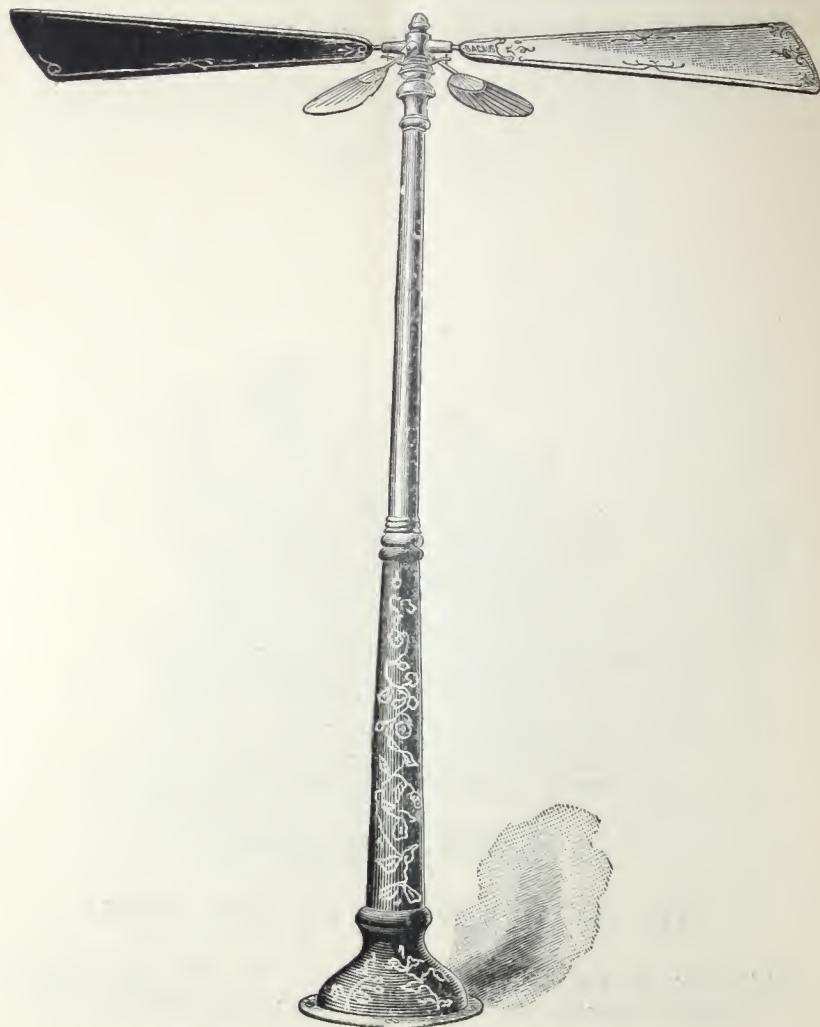
#### PRICE LIST.

With plain shellac blades and patent blade regulator, complete,	\$18 00
With decorated blades, full nickel attachments, patent blade regulator.....	\$22 50
With handsome hardwood finish blades, full nickel and patent blade regulator, complete.....	\$25 00

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Note Our New Brass Fan, Page 2.





## No. 5, OR STANDARD COLUMN.

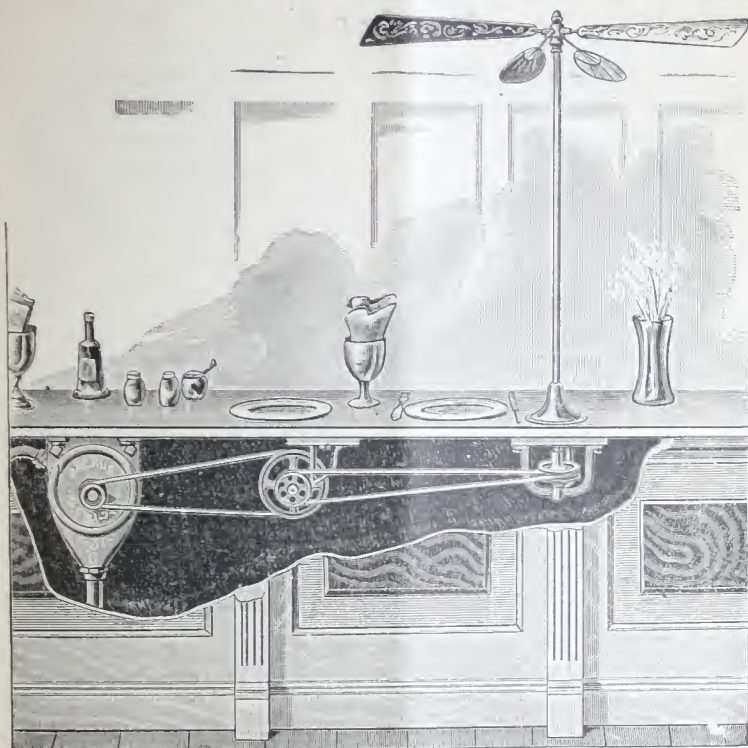
### PRICE LIST.

Polished brass with plain blades, base gold bronze, patent regulating attachment,	\$18.50
Polished brass with shellac blades, base black Japan, and ornamented with regulating attachment	\$23.00
Full nickel polished and decorated blades, base Japan and ornamented, very handsome.	\$26.00

A STANDARD FAN SUITABLE FOR ANY PLACE.

See Our New Electric Fan, Page 43.

## KEEP YOUR COUNTER FREE FROM FLIES



PATENTED.

Price of Above Fan Only, Complete, \$16.00.

Price of Motor and Counter Shaft Given on Application.

### —NOTE.—

The above cut shows how our nickel-plated Counter Column can be put up and driven by one of our small Water Motors, all the attachments as well as the Motor being under the counter, and when one fan is needed, or where there are no cellars, this we would particularly advise; it is supplied with one of our patent regulating attachments, and is very neat and artistic.

Druggists cannot afford to be without them.

## Keep Your Soda Counter Free From Flies.

Note Our New Brass Fan, Page 2.

## Some of the Many Ways our Fans Can be Used.



Showing Counter Column Fan, also our Ceiling Fan, style B, driven by a round belt, running over a guide bracket from the room below, as used in restaurants.

---

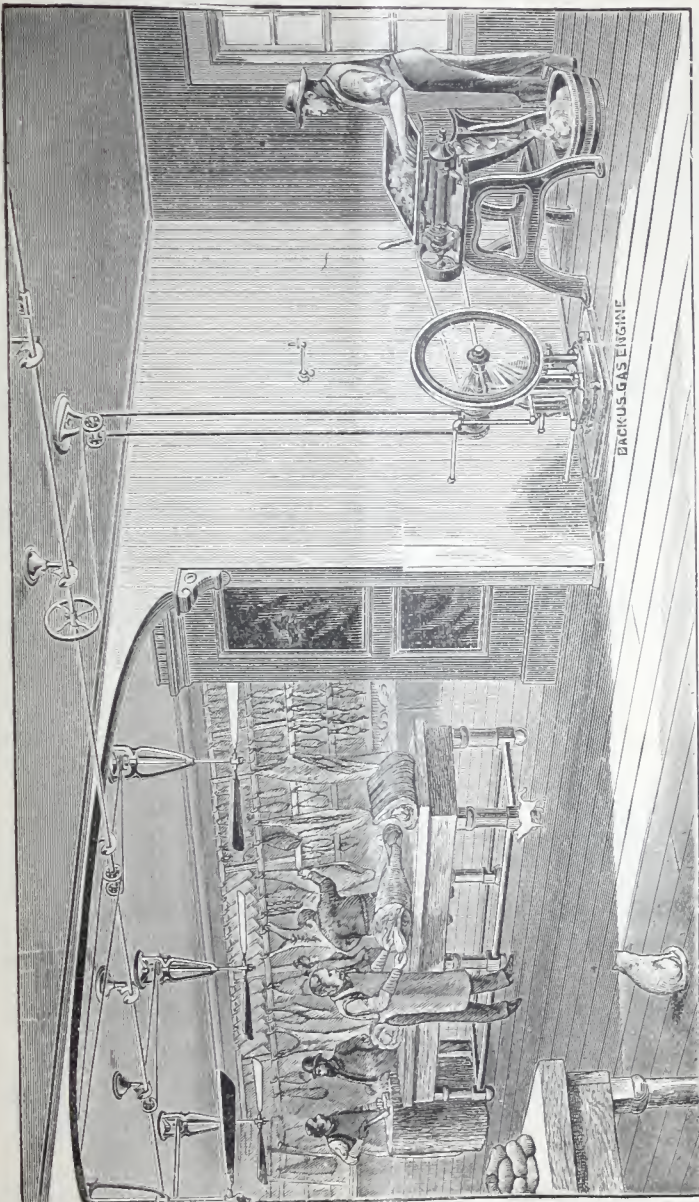
### — NOTE. —

Where a number of Fans are driven it is always advisable to drive same from a light shaft, direct.

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See Our New Electric Fan, Page 43.



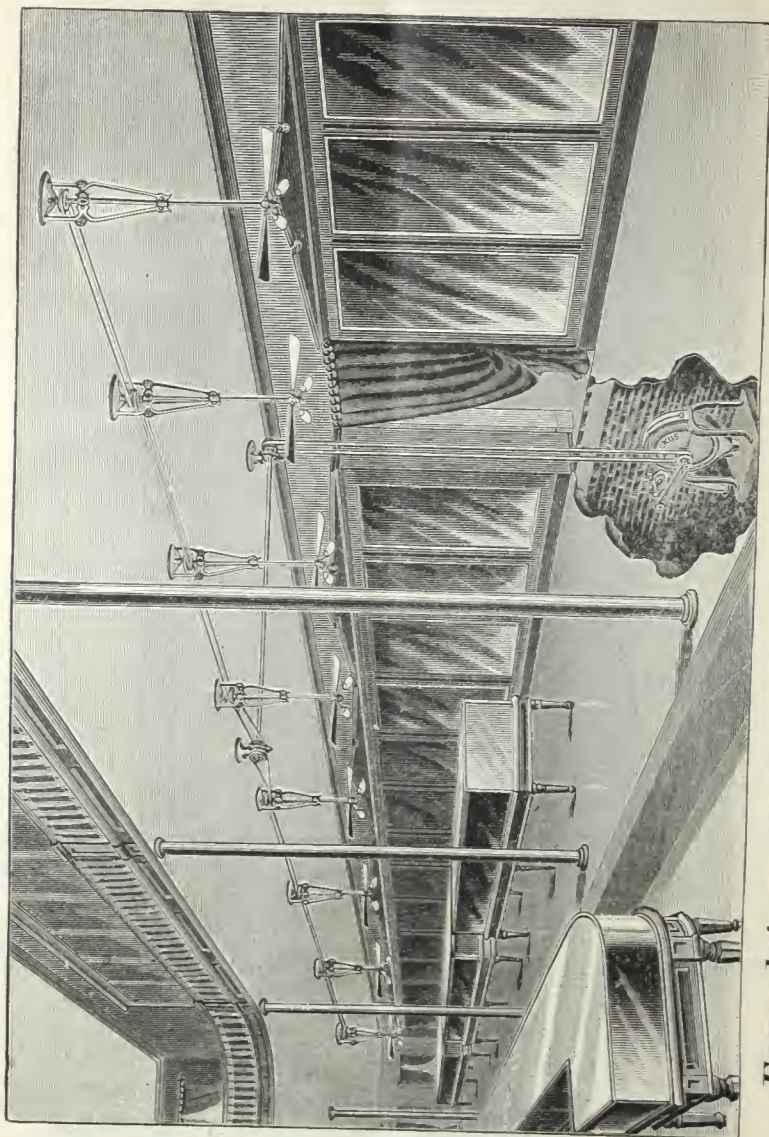
**Grocers and Butchers Cannot Afford to be Without Them**

*For full line of attachments see pages 29 to 33.*

The above cut shows a butcher shop fitted up with our Patent Fans, which are being driven by the Backus Water Motor. The Motor is also used, as you will see, for driving a meat chopper. Write for Special Circular of the Backus Water Motor.

If you cannot use a Water Motor write us for a circular on our Gas Engine.

**For Dry-Goods Stores, Shoe Stores, and Merchants  
of All Kinds.**



*Fans driven tandem should be driven with flat belts.*

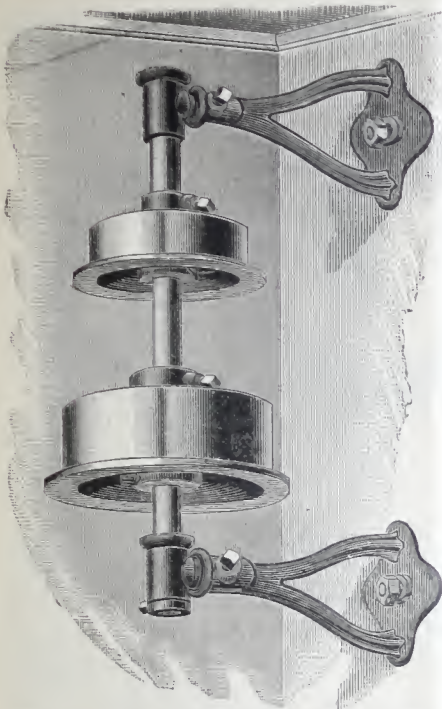
The cut above shows a system of Fans, all of which are driven tandem, or one after the other, from a short shaft which runs half way across the room. In running Fans in this way we would always advise the use of flat pulleys and flat belts.

**If Possible, Never Drive More Than Three Tandem.**

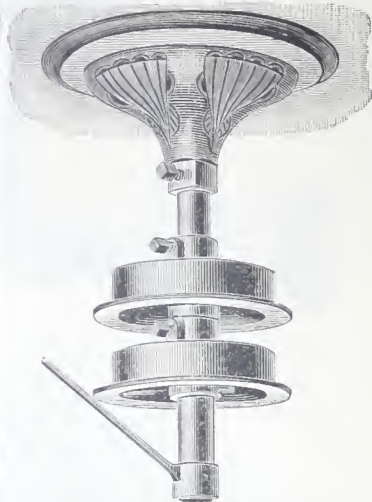
**We Furnish Flat as well as Grooved Pulleys for Driving Fans.**

**See Our New Electric Fan, Page 43.**

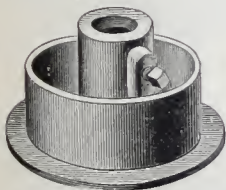




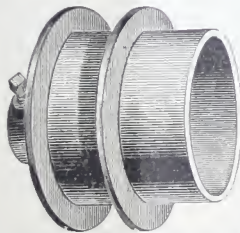
This cut shows an arrangement for a Vertical Counter Shaft which can be so arranged at the end of the room as to drive several fans direct or tandem.



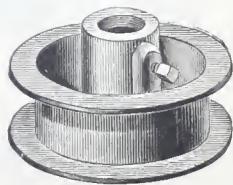
By this arrangement a light or heavy round or flat belt can be carried around a corner. The pulley shown above is for belt from  $1\frac{1}{2}$  inch up to  $3\frac{1}{2}$  inches.



This style is used in the fans when driven by flat belts.



This style is used where it is necessary to use two belts from the same shaft or where the fans are driven tandem with flat belts.



This style is used on the line shaft, the double flanges preventing the belt from running off.

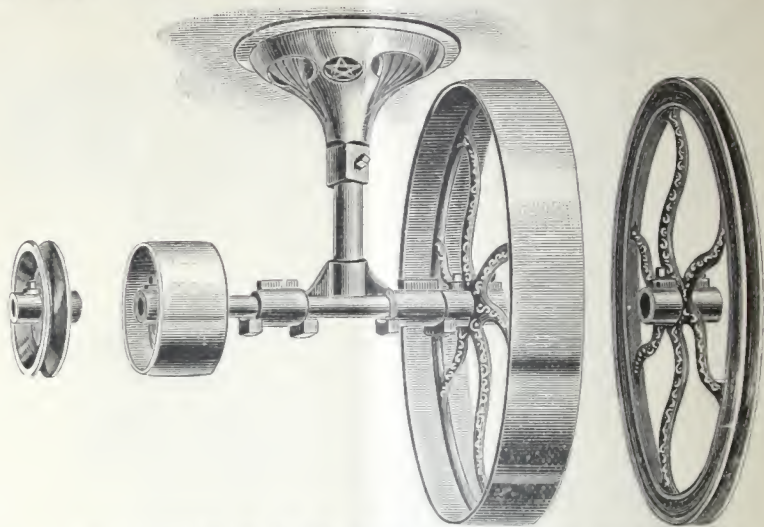
### — NOTE. —

We make flange pulleys as shown above, in all sizes from 3 inches diameter to 8 inches diameter.

See List of Sizes and Price, Page 46.



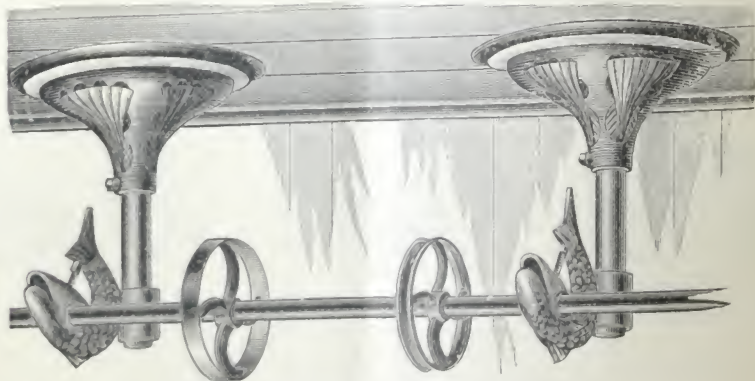
WE FURNISH  
THE MOST ARTISTIC and ORNAMENTAL ATTACHMENTS.



**THE BACKUS NEW STYLE COUNTER SHAFT.**

The above Counter Shaft as shown is furnished either with flat or grooved pulleys, as desired, and can be adjusted to any size. The shaft runs in babbitted boxes, and the entire arrangement is adjustable in three ways. We consider it by far the neatest combination, for the use to which it is put, ever invented.

**FINISHED IN GOLD BRONZE.**



**FISH HANGER COUNTER SHAFT.**

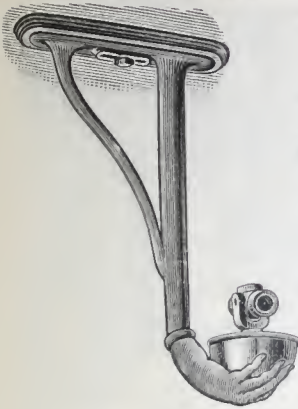
This shows a style of counter shaft often used, and the hangers can be either the plain hanger, or fancy fish hanger, as desired, the pulleys also of the size wished, up to 18 inch, in diameter; this also furnishes a good idea of just how the line shaft should be put up.

**USE THE BACKUS WATER MOTOR FOR DRIVING FANS.  
THE CHEAPEST POWER KNOWN.**

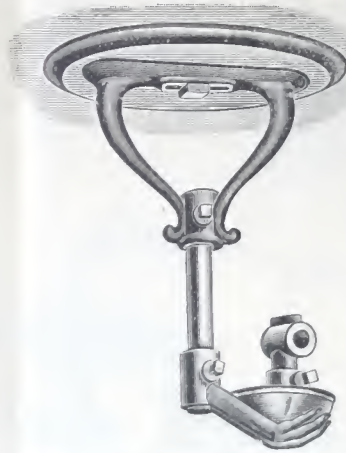
Send for Special Circular.

See Our New Electric Fan, Page 43.

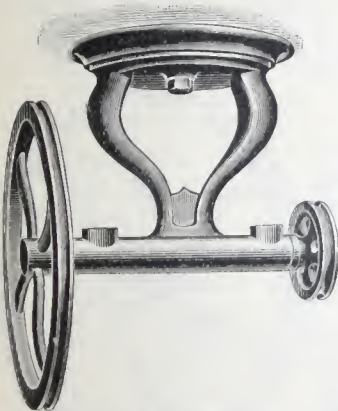
Beautiful Attachments and Convenient Devices.



Our Standard Hand No. 1 Shaft Hanger, a perfect self-oiler, no drip, is adjustable in every way, and can be put up with *one bolt*.



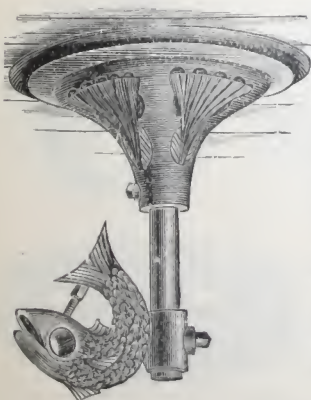
Our Round Base No. 27 Shaft Hanger is made so as to allow of a greater adjustment up or down, and can be furnished with any drop.



Patent countershaft, used for running 1, 2 or 3 ceiling fans in connection with small electric motor or water motor.



Girder Hanger No. 4. This hanger, as seen in the cut, can be used in placing a line shaft on a girder where there are posts, so as to throw the shaft out beyond the line of posts.

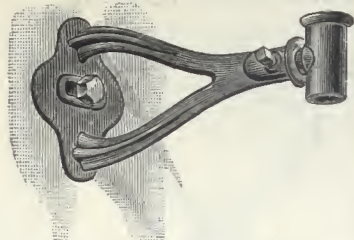


Fish Hanger No. 5. Patented Dec. 22, 1885. This cut shows our Patent Fish Hanger. Being a practical oiler and oil cup, it is highly decorated and very ornamental.

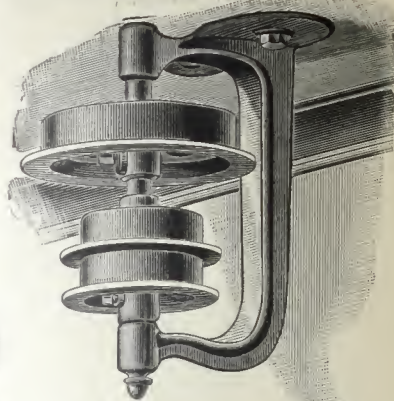


No. 6. This hanger is made and used where heavy shaft is required, and can be furnished from 5 in. to 16 in. drop.

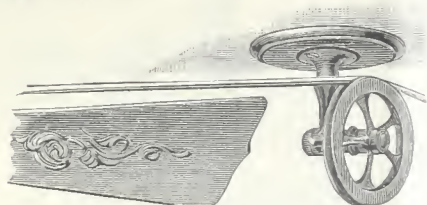




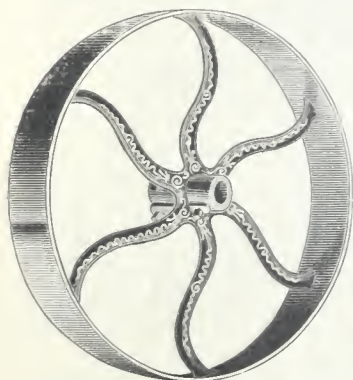
\*Our No. 7, or Vertical Shaft Hanger, is used where a shaft is carried up or down the side or end of the room.



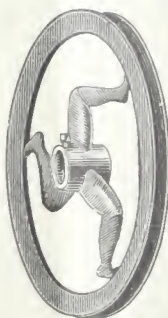
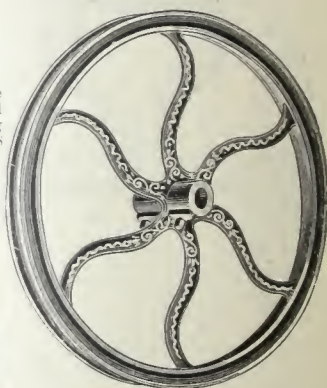
Our New Ceiling Counter Shaft.



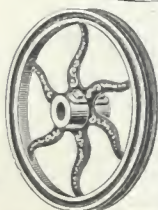
† This, as is seen in above cut, is used, where a ceiling is very low, to lift the belt up and above the line of the blade.



These cuts show the style of pulleys furnished by us for main driving pulleys from 12 to 15 inches.

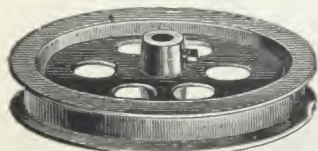
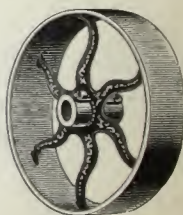


Our 10-inch GROOVE PULLEY.



The Backus Standard 6-inch Leg Pulley, which is used for driving individual fans from main driving shafts. Its graceful shape and unique design especially adapt it to this style of work.

Our 10-inch FLAT PULLEY.



Our New Pattern Flat Pulley, double flange, for 1-inch belt.

This pulley we can furnish of any size from 4 to 8 in. in diameter.

Note Price List,  
Page 46.



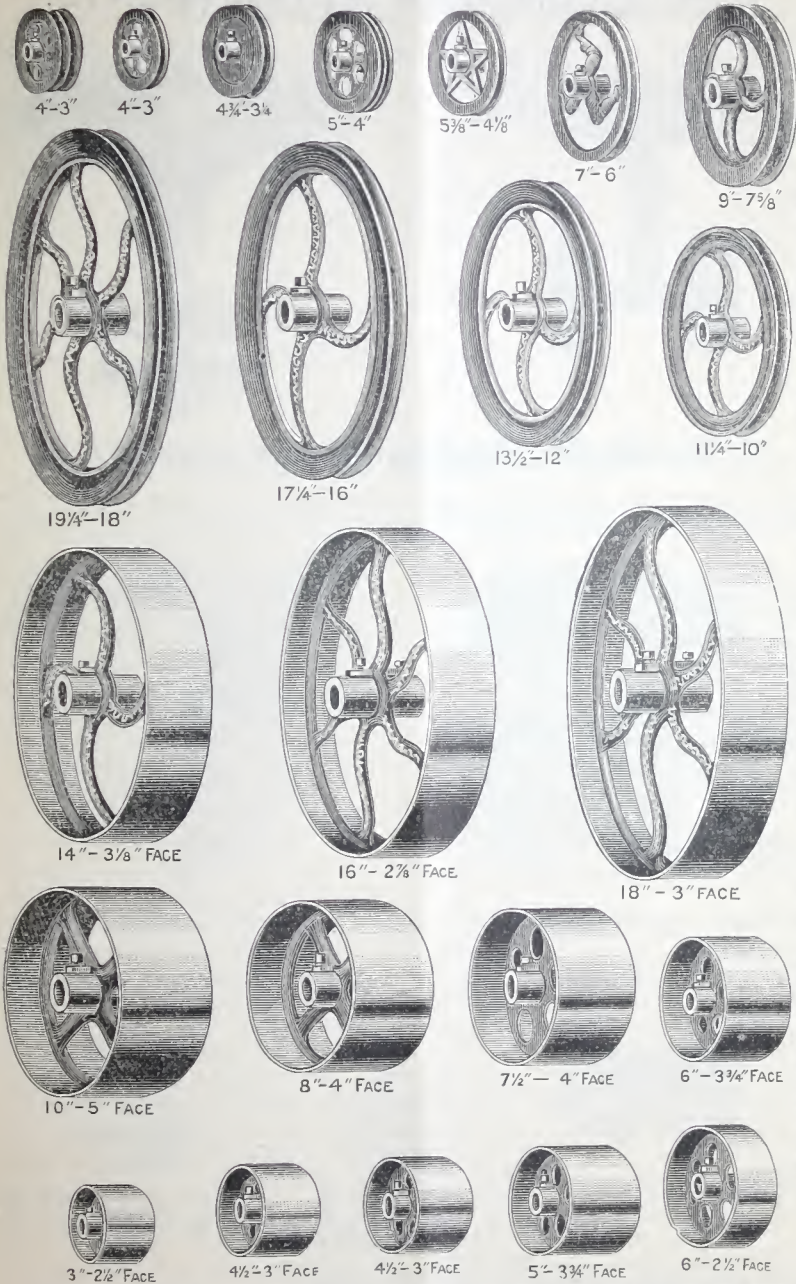
Our Double Groove Pulley, used in driving fans tandem where round belt is used.

See Our New Electric Fan, Page 43.



**PULLEYS--Beautiful, Light and Strong.**

USE THE BACKUS STANDARD PULLEYS AND MAKE YOUR PLACE ATTRACTIVE.



The above cuts show some of the Standard Size Pulleys manufactured by us, giving as near as possible the exact size over all and in the groove.

**NOTE PRICE LIST, PAGE 46.**

In Ordering Our Fans or Writing for Estimates, send us Answers to the Following Questions:

Number of Fans required.  
Length and width of room.  
Height of ceiling.

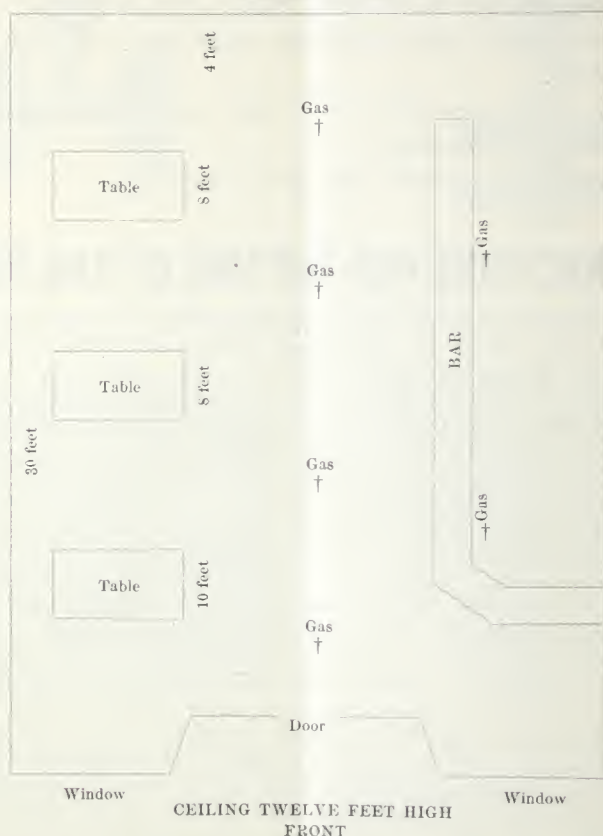
Height of gas fixtures from floor.  
Distance of gas fixtures from side wall.  
Distance of gas fixtures from each other.

If possible send rough sketch, something like the one below, and we can easily send estimate for everything complete, ready to put up.

**PLAN OF RESTAURANT AND BAR:**

Back Wall—20 feet.

*Make a Cross Showing Where You Think  
Fans Are Most Needed.*



*These Are The Fellows You  
Must Keep Out.*



If you have power for driving fans, state what it is and about where located. We would advise the use of a Backus Motor in all places having water-works; others can use electric motors, steam or gas engines. In case you desire estimate on a Water Motor, send pressure of water. Estimates cheerfully given.

WE CAN FURNISH

**GAS ENGINES, STEAM ENGINES,**  
ELECTRIC MOTORS WHEN DESIRED.

— IF POSSIBLE —

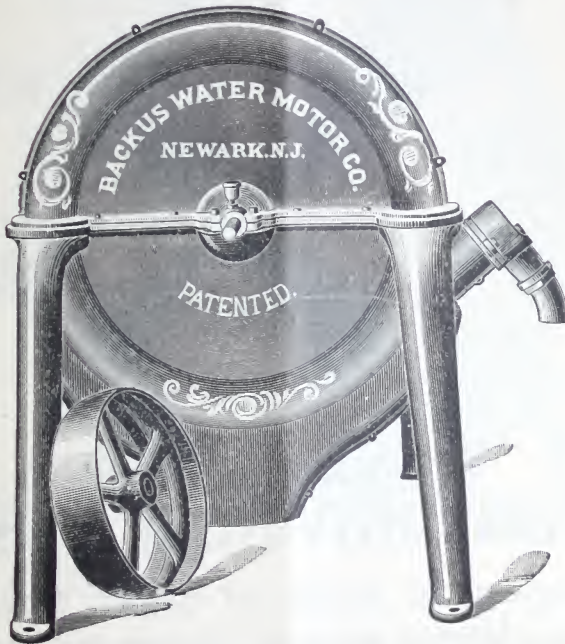
ALWAYS SEND A ROUGH SKETCH OF STORE, GIVING DIMENSIONS.

See Our New Electric Fan, Page 43.

## "THE BACKUS WATER MOTOR"

The Most Economical Power Known for  
Driving Fans and all Kinds of Light Machinery.

KNOWN AND IN USE THE WORLD OVER.



It is safe. It cannot blow up. It requires no fuel. No delay.  
No extra insurance to pay. It is noiseless. It needs no Engineer.  
No ashes to clean away. No coal bill to pay.

WRITE TO US FOR SPECIAL CATALOGUE ON  
WATER MOTORS.

WRITE TO US FOR SPECIAL CATALOGUE ON  
CHURCH ORGAN BLOWING.

*Over 15,000 Running all Kinds of Light Machinery.*

Note Price List, Page 48.



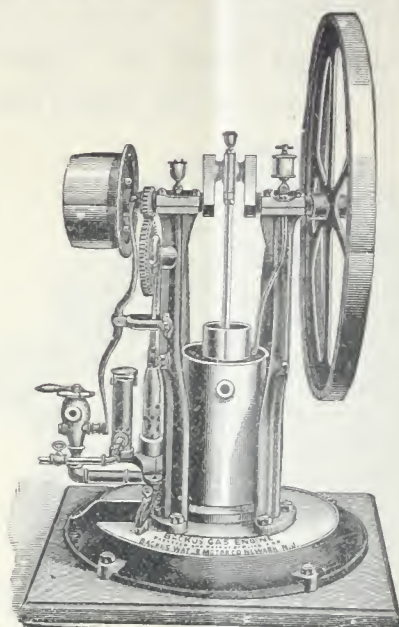
# THE BACKUS GAS ENGINE.

SIMPLE !

RELIABLE !

DURABLE !

ECONOMICAL !



## FOR DRIVING FANS

And Moving all Kinds of Light Machinery  
where Water Motors cannot be used.

Built From 1-2 Horse Power Up.

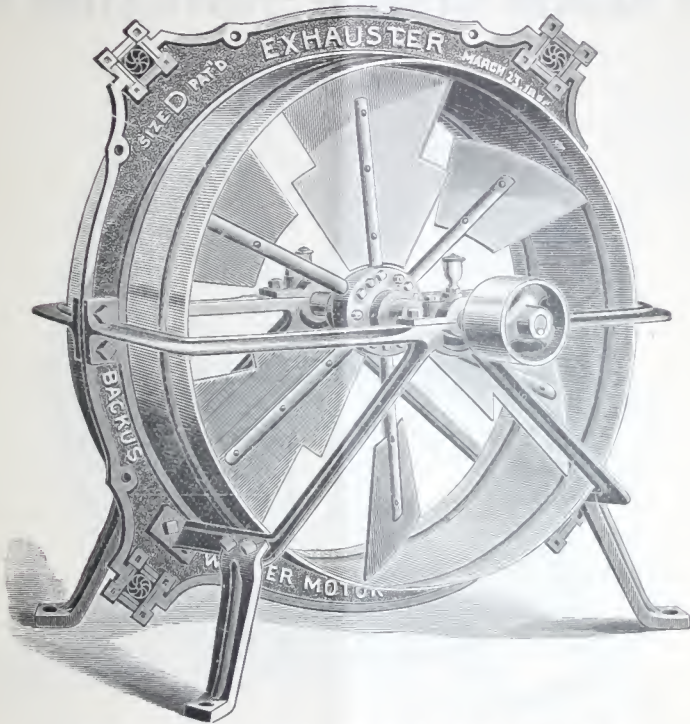
### IF INTERESTED

Write to us for a Special Gas Engine Circular, giving full particulars and prices.

Backus Water Motor Company,  
NEWARK, N. J.

See Our New Electric Fan, Page 43.

## THE BACKUS PATENT EXHAUST VENTILATING WHEELS.



IT STANDS WITHOUT AN EQUAL.

From the Peculiar Shape of its Blade it will Show a Wonderful Efficiency.

No Curved Blades to Collect the Dust.

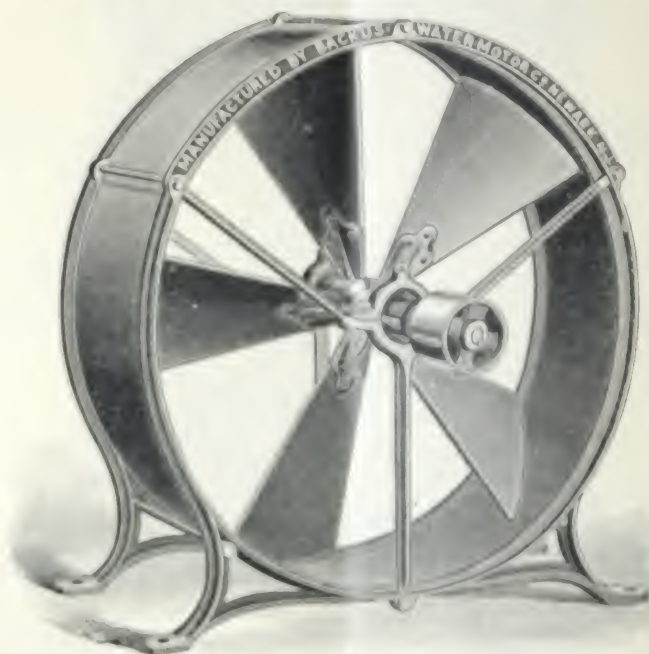
They are used in the Great New York Post Office ; the United States capitol, at Washington ; the United States Sub-Treasury Building, New York ; New 22d Regiment Armory, New York ; Hoffman House, New York ; Hotel Buckingham, New York ; Hotel Marlboro, New York ; and in thousands of Factories, Bleacheries, Dye Houses, Hat Shops, Acid Works, Chemical Works, etc. Invaluable for Drying, Heating, Cooling, Removing Steam, Dust and Smoke, and for Ventilating Public Buildings of all kinds.

Note Price List, Page 47.

## EXHAUST WHEELS!

If you desire a Cheap, Strong Fan, buy

# THE BACKUS CYCLONE VENTILATING FAN.



This fan, for a strong, cheap exhaust wheel, cannot be excelled. The spokes (or blade braces) and hub are cast in one. No possible chance for the blades to get loose and turn. The box is adjustable and well-oiling. It is easily applied and runs light and noiseless, and with the advantage of a straight, clear-cut blade, it will move

## ENORMOUS VOLUMES OF AIR.

Having but five blades, we are enabled to put this very superior Fan on the market at the following low prices:

### PRICE LIST ON CYCLONE FAN ONLY, SIZE AND SPEED.

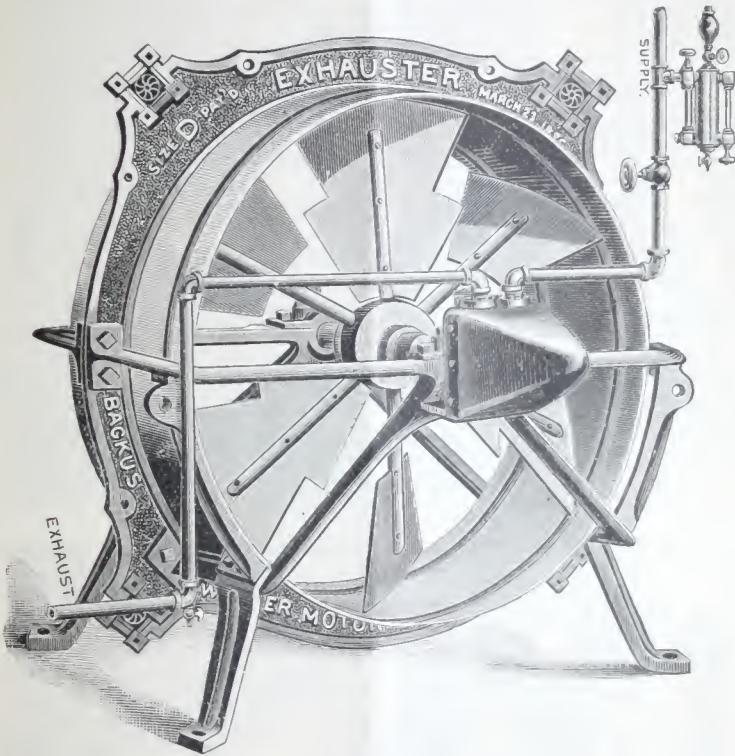
Size of Fan.	Size of Pulley.	Rev. per Minute.	List Price.
30 inches.	7 x 3 inches.	600 to 1,200	\$50.00
36 "	8 x 4 "	500 to 1,000	65.00
44 "	9 x 4 "	450 to 900	85.00
54 "	10 x 4 "	400 to 800	105.00
63 "	12 x 6 "	350 to 700	125.00
		325 to 650	150.00

For Ventilating, Drying, Removing Hot Air, Steam and Dust, use THE BACKUS CYCLONE VENTILATING FAN.

See Our New Electric Fan, Page 43.



# THE BACKUS EXHAUST VENTILATING WHEEL AND HIGH SPEED ENGINE COMBINED.

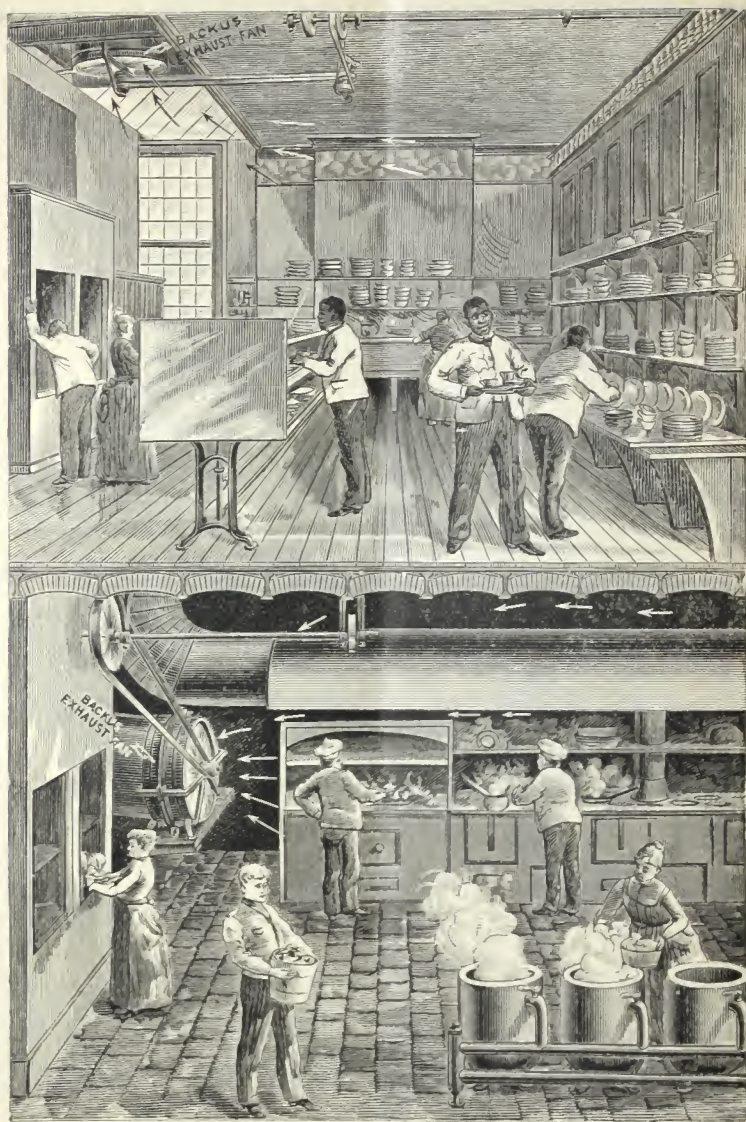


In large factories and many other places it is often more convenient and economical to run a small engine on the face of the Fan, as shown above, and particularly where you desire the Fan to run all night, for drying or ventilating purposes, and it is not convenient for you to run your large engine, you will find the above combination of great value.

**It is not a Rotating Engine, and it will run at a  
High Rate of Speed.**

**The Only Practical Combination Fan and Engine Ever Built.**

**Price List, Page 47.**



The above cut shows our PATENT EXHAUSTER as used in the kitchen for removing smoke, hot air, and over the carver's table for taking out steam. The above Fans, as well as our Patent Rotating Fans were placed in a large dining-room in New York City, and our fans can be seen in hundreds of places throughout the country.—  
*Write for Special References on CEILING FANS.*

**We Build Gas Engines.**

## The Backus Electric Ceiling and Column Fan.

Ahead of Anything Ever Produced in This Line.



PATENTED.

**A SWITCH ON EACH FAN WHEN DESIRED, GIVING TWO SPEEDS.**

**NOISELESS, DURABLE, ORNAMENTAL.**

**Will Run on One Ampere to One and One-fourth,  
and Cannot Get Out of Order.**

They can be run on 110, 230, and 500 Volt Currents.

**Furnished in Many Different Styles.**

**We Publish a Special Electric Fan Circular, Which Will Give  
You Full Particulars and Prices.**

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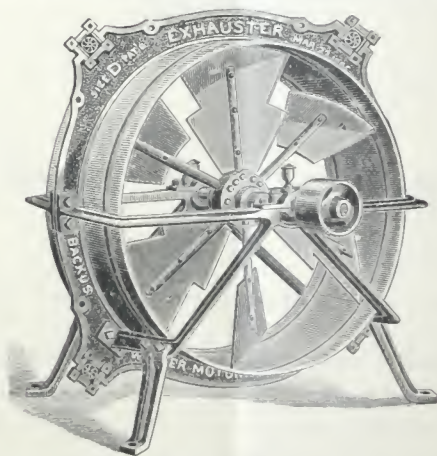
**Send For One.**



## TABLE SHOWING Power Required, Speed Necessary and Diameter in Inches of Fans and Pulleys.

Size in Inches and Letters:	Speed Revolutions Per Minute:	Size of Pulleys:	Horse Power Required:
A—12 inches diameter,	900 to 1,900	3 inches,	$\frac{1}{8}$ to $\frac{1}{4}$
B—18       “	650 to 1,450	3       “	$\frac{1}{8}$ to $\frac{3}{8}$
C—24       “	600 to 1,250	4       “	$\frac{1}{4}$ to $\frac{3}{4}$
D—30       “	550 to   950	5       “	$\frac{1}{4}$ to $\frac{7}{8}$
E—36       “	500 to   850	6       “	$\frac{1}{2}$ to 1 $\frac{7}{8}$
F—42       “	475 to   825	7       “	$\frac{3}{4}$ to 2 $\frac{3}{4}$
G—48       “	400 to   800	8       “	1 $\frac{1}{4}$ to 4
H—54       “	375 to   700	9       “	1 $\frac{3}{4}$ to 5
I—60       “	350 to   600	10       “	2 $\frac{1}{4}$ to 5 $\frac{1}{2}$
K—72       “	350 to   500	12       “	2 $\frac{1}{2}$ to 5 $\frac{3}{4}$
L—84       “	300 to   450	14       “	3       to 7 $\frac{1}{2}$
M—96       “	275 to   425	16       “	3 $\frac{3}{4}$ to 9 $\frac{1}{2}$
N—108      “	250 to   375	18       “	4 $\frac{1}{2}$ to 12
O—120      “	200 to   300	20       “	5       to 15

PULLEYS, AS A RULE, 1-6 DIAMETER OF FAN.



In ordering, always note the work that is to be done, and special information will be furnished in regard to the setting of our Exhauster, as well as the speed required.

**The Backus Water Motor is the Cheapest  
Power Known.**

See Our New Electric Fan, Page 43.

# PRICE LIST

## BACKUS PATENT ROTATING FANS.

### NEW DESIGNS & STYLE A.

Ceiling.	New Design.	Style A.
7 feet . . . . .	\$ 6 00	\$ 6 00
7 " 6 inches . . . . .	6 75	6 75
8 " " . . . . .	7 50	7 25
8 " 6 " . . . . .	8 50	8 25
9 " " . . . . .	9 25	9 00
9 " 6 " . . . . .	10 00	9 75
10 " " . . . . .	10 75	10 50
10 " 6 " . . . . .	11 50	11 25
11 " " . . . . .	12 25	12 00
11 " 6 " . . . . .	13 00	12 75
12 " " . . . . .	13 75	13 50
12 " 6 " . . . . .	14 25	14 00
13 " " . . . . .	14 75	14 50
13 " 6 " . . . . .	15 25	15 00
14 " " . . . . .	15 75	15 50
14 " 6 " . . . . .	16 00	15 75
15 " " . . . . .	16 25	16 00
15 " 6 " . . . . .	16 75	16 50
16 " " . . . . .	17 25	17 00
16 " 6 " . . . . .	17 50	17 25
17 " " . . . . .	18 25	18 00
17 " 6 " . . . . .	18 75	18 50
18 " " . . . . .	19 25	19 00
18 " 6 " . . . . .	19 75	19 50
19 " " . . . . .	20 25	20 00
19 " 6 " . . . . .	20 75	20 50
20 " " . . . . .	21 25	21 00

The above prices include our A fans, shellac varnish blades, patent blade adjuster, pulley, lag bolt for putting same up, and everything complete ready to hang.

On our New Design includes polished shellac blades, blade adjuster, pulley and lag bolt complete ready to hang up. The same is also furnished with style A.

#### — NOTE. —

Mahogany, Rosewood, Bird's Eye Maple, polished or brightly decorated blades will be charged extra.

**BOXING AT COST.**





# PRICE LIST

—OF—

## BACKUS

### PATENT EXHAUST VENTILATING

## FANS.

## SIZE :

A—12-inch, complete with pulley, frame and brass oil cups,	\$30 00
B—18 “ “ “ “ “ “ “	40 00
C—24 “ “ “ “ “ “ “	60 00
D—30 “ “ “ “ “ “ “	80 00
E—36 “ “ “ “ “ “ “	100 00
F—42 “ “ “ “ “ “ “	125 00
G—48 “ “ “ “ “ “ “	150 00
H—54 “ “ “ “ “ “ “	175 00
I—60 “ “ “ “ “ “ “	235 00

## SKELETON.

K—72-inch, complete with frame and oil cups . . .	225 00
L—84 “ “ “ “ . . .	265 00
M—96 “ “ “ “ . . .	300 00
N—108 “ “ “ “ . . .	335 00
O—120 “ “ “ “ . . .	375 00

Fans Fitted to Run Horizontally, \$5 to \$20 Extra.

# PRICE LIST.

## BACKUS

### HIGH SPEED ENGINE

### AND FANS COMBINED.

This price does not include Sight Feed Oilier.

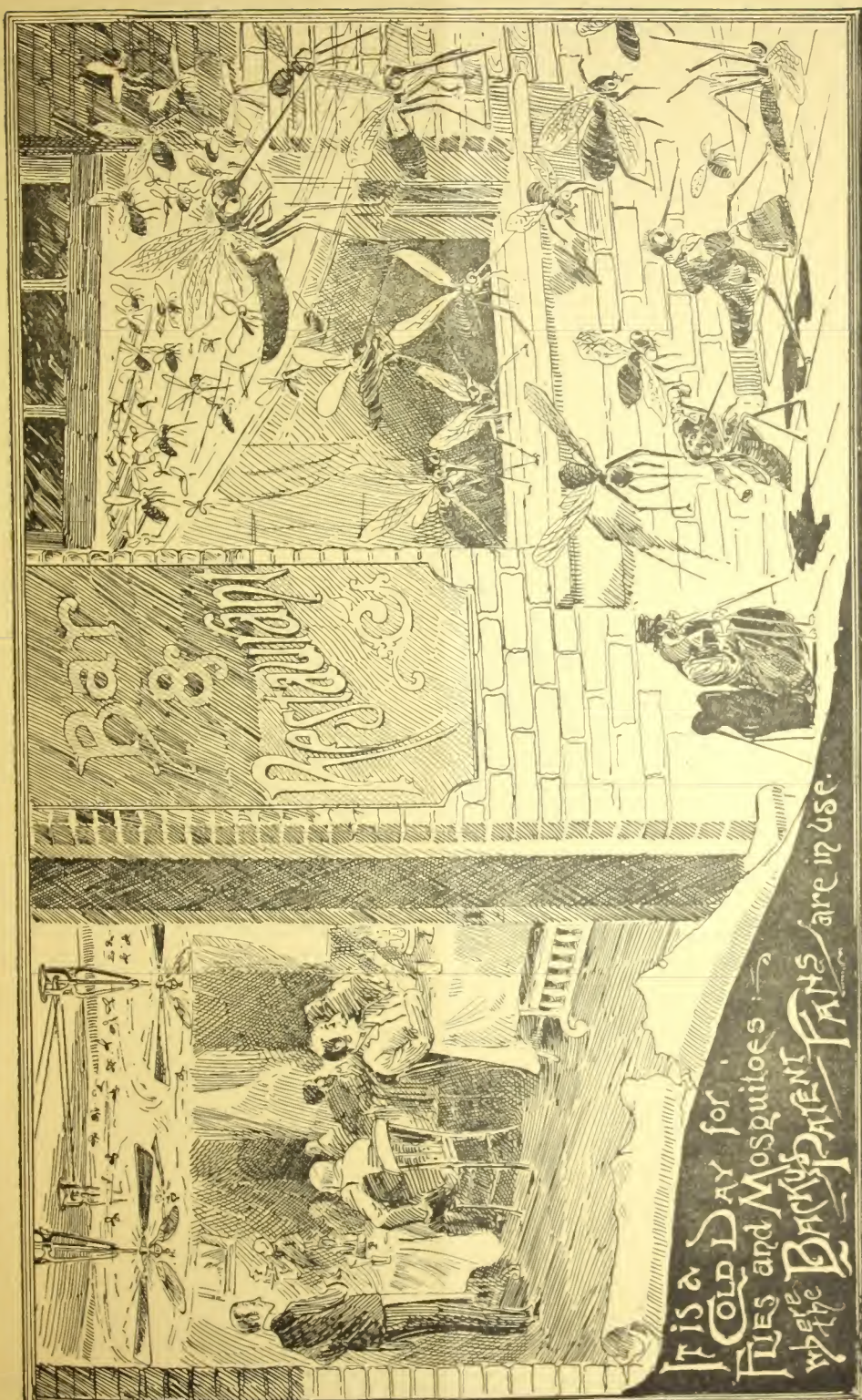
Note page 41.	{	24-inch fan and engine, complete . . . . .	\$185 00
		30 “ “ “ “ “ . . . . .	215 00
		36 “ “ “ “ “ . . . . .	250 00
		42 “ “ “ “ “ . . . . .	285 00
		48 “ “ “ “ “ . . . . .	325 00
		54 “ “ “ “ “ . . . . .	400 00
		60 “ “ “ “ “ . . . . .	450 00

NOTE.—Special Exhaust Fans designed and built extra heavy to suit any conditions, and price given on application.

See Our New Electric Fan, Page 43.







It is a **COLD DAY** for  
**FLIES and MOSQUITOES**  
where **BACKUS PATENT FANS** are in use.



# VENTILATING FANS.

## THE CRISIS.

I  
There is *business* in this crowd,  
There is "music" in this loud,  
Busy humming of mosquitoes, flies, and bees.  
For their time has come at last:-  
Nevermore, as in the past,  
Will these insects get a living where they please!

III  
And their many cunning ways  
Of enjoying summer days,  
When unhappy human beings "get it hot!"  
-Yes, their enemy has come,  
Driving them away from home.  
And by **DACKUS FAN'S** stiff breezes they've  
(been caught)

IV  
Would you know what's being said  
By that old chap with a head  
Big enough to take a No. 14 hat?  
Or the thoughts of him down there  
Sitting ponderous in the chair  
With "refreshment" at his side  
(perhaps it's that!)

V  
Would you hear their tale  
of woe -  
How that FAN annoyed  
them so -

How it scattered them  
wherever it was hung,  
What bad colds its breezes  
made

In their little heads -  
and played  
The very *dickens*  
of a row with  
every lung?

II  
One complaint they've come to make.  
And prompt action mean to take.  
To dispose of what has caused them all their  
And disturbed their playful gambols swoes  
In molasses, - and their rambles  
Over shiny bald heads with their sticky toes!



VI  
Then the best thing you can do  
Is to "drop a line or two"  
To the **DACKUS MOTOR COMPANY**, we say, -  
They will tell you all that's known  
Of the work this FAN has done,  
And will furnish you with estimates. - Good day!

## THE BEST VENTILATING FANS IN THE MARKET.

GAS ENGINES. ELECTRIC CEILING FANS. WATER MOTORS.